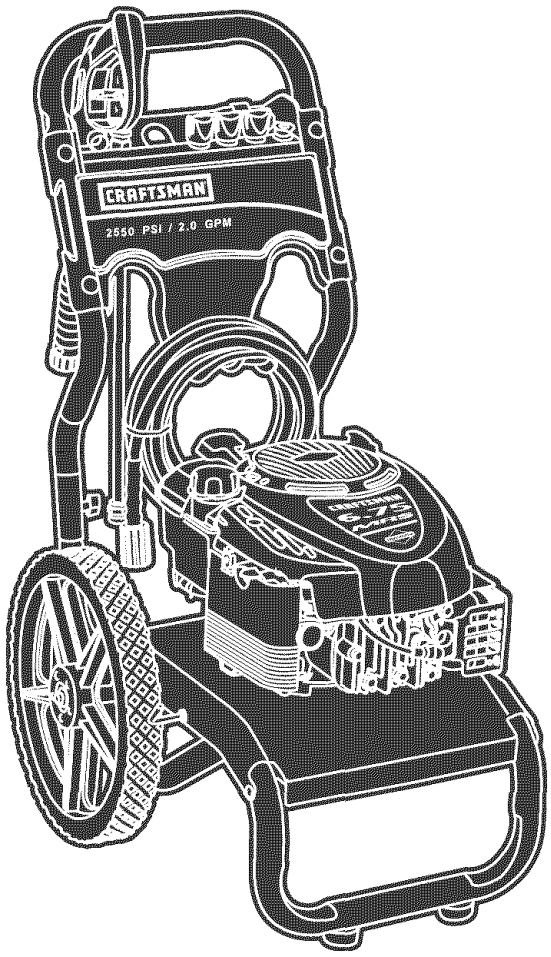
Owner's Manual

CRAFTSMAN®

PRESSURE WASHER

6.75 HORSEPOWER
2550 PSI
2.0 GPM
Model No. 580.752330



PRESSURE WASHER
CUSTOMER HELPLINE
1-800-222-3136

HOURS: Mon. - Fri. 8 a.m. to 5 p.m. (CT)

- Safety
- Assembly
- Operation
- Maintenance
- Parts

CAUTION

Before using this product, read this manual and follow all Safety Rules and Operating Instructions.

Sears, Roebuck and Co., Hoffman Estates, IL 60179 U.S.A.
Visit our Craftsman website: www.craftsman.com

Part No. 195794GS Draft 4 (09/19/2005)

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WARRANTY

LIMITED WARRANTY ON CRAFTSMAN PRESSURE WASHER

For one year from the date of purchase, when this Craftsman pressure washer is maintained and operated according to the instructions in the owner's manual, Sears will repair, free of charge, any defect in material and workmanship.

If this washer is used for commercial purposes, this warranty applies for only 90 days from the date of purchase. If this pressure washer is used for rental purposes, this warranty applies for only 30 days after date of purchase.

This warranty does not cover:

- Expendable items such as spark plugs or air filters, which become worn during normal use.
- Repairs necessary because of operator abuse or negligence, including damage resulting from no water being supplied to pump or failure to maintain the equipment according to the instructions contained in the owner's manual.

Warranty service is available by returning the high pressure washer to the nearest Sears service center or dealer in the United States.

This warranty gives you specific legal rights and you may also have other rights, which vary from state to state.

Sears, Roebuck and Co., Dept. 817WA, Hoffman Estates, IL 60179

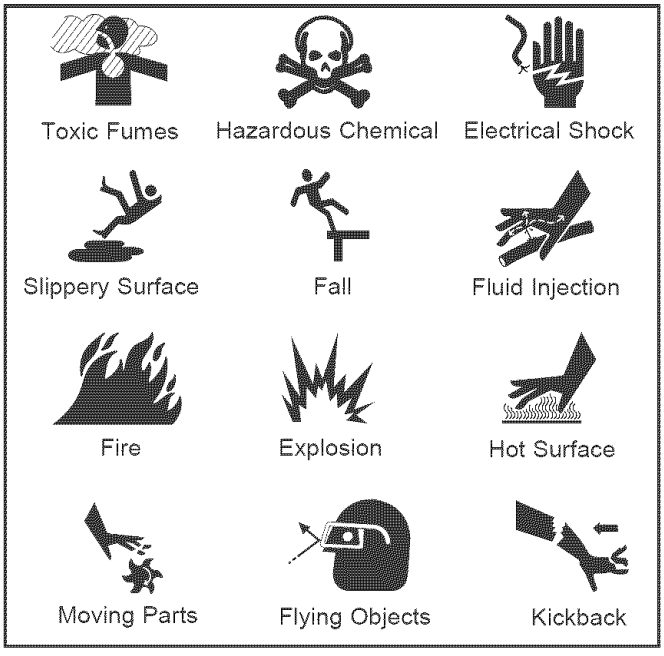
SAFETY RULES

This is the safety alert symbol. It is used to alert you to potential personal injury hazards. Obey all safety messages that follow this symbol to avoid possible injury or death.

Read this manual carefully and become familiar with your pressure washer. Know its applications, its limitations, and any hazards involved.

The safety alert symbol (⚠) is used with a signal word (DANGER, CAUTION, WARNING), a pictorial and/or a safety message to alert you to hazards. **DANGER** indicates a hazard which, if not avoided, *will* result in death or serious injury. **WARNING** indicates a hazard which, if not avoided, *could* result in death or serious injury. **CAUTION** indicates a hazard which, if not avoided, *might* result in minor or moderate injury. **CAUTION**, when used **without** the alert symbol, indicates a situation that could result in equipment damage. Follow safety messages to avoid or reduce the risk of injury or death.

Hazard Symbols and Meanings



© Sears Brands, LLC

⚠ WARNING

The engine exhaust from this product contains chemicals known to the State of California to cause cancer, birth defects, or other reproductive harm.

⚠ WARNING

Running engine gives off carbon monoxide, an odorless, colorless, poison gas.

Breathing carbon monoxide can cause nausea, fainting or death.

Some chemicals or detergents may be harmful if inhaled or ingested, causing severe nausea, fainting or poisoning.

- Operate pressure washer ONLY outdoors.
- Keep exhaust gas from entering a confined area through windows, doors, ventilation intakes or other openings.
- DO NOT operate pressure washer inside any building or enclosure, even if doors or windows are open.
- Use a respirator or mask whenever there is a chance that vapors may be inhaled.
- Read all instructions packed with mask so you are certain mask will provide necessary protection against inhaling harmful vapors.

⚠ WARNING

Use of pressure washer can create puddles and slippery surfaces.

High pressure spray could cause you to fall if you are too close to the cleaning surface.

- Keep spray nozzle between 8 to 24 inches away from cleaning surface.
- Operate this unit on a stable surface.
- Cleaning area should have adequate slopes and drainage to reduce possibility of falls due to slippery surfaces.
- Be extremely careful if you must use pressure washer from a ladder, scaffolding or any other relatively unstable location.
- Firmly grasp spray gun with both hands when using high pressure spray to avoid injury if gun kicks back.

⚠ WARNING

Rapid retraction of starter cord (kickback) will pull hand and arm toward engine faster than you can let go.

Broken bones, fractures, bruises or sprains could result.

- When starting engine, pull cord slowly until resistance is felt and then pull rapidly to avoid kickback.
- If engine starts and fails to continue to run or if increased resistance is felt during starting pull attempts, squeeze trigger on spray gun.

⚠ DANGER

Contents are HARMFUL OR FATAL IF SWALLOWED. Avoid contact to eyes, skin or clothing. DO NOT take internally. Avoid breathing the mist or vapor. Overexposure to eyes or skin can cause irritation. Keep stabilizer out of the reach of children.

Fuel stabilizer is a hazardous chemical.**

- Fresh Start™ fuel cap is designed to hold a cartridge which contains fuel stabilizer.
- If SWALLOWED, call physician immediately. DO NOT induce vomiting. If inhaled, remove to fresh air. In case of eye or skin contact, flush with water for 15 minutes.
- Store unopened cartridges in a cool, dry, well ventilated area. Keep open cartridge in fuel cap, and fuel cap closed on fuel tank when not in use.
- In the case of an emergency, contact a physician immediately and call 1-800-424-9300 for material safety information.

**Fuel stabilizer contains: 2,6-di-tret-butylphenol (128-39-2) and aliphatic petroleum distillate (64742-47-8).

⚠ WARNING

Fuel and its vapors are extremely flammable and explosive.

Fire or explosion can cause severe burns or death.

WHEN ADDING OR DRAINING FUEL

- Turn pressure washer OFF and let it cool at least 2 minutes before removing fuel cap. Loosen cap slowly to relieve pressure in tank.
- Fill or drain fuel tank outdoors.
- DO NOT overfill tank. Allow space for fuel expansion.
- Keep fuel away from sparks, open flames, pilot lights, heat, and other ignition sources.
- DO NOT light a cigarette or smoke.

WHEN STARTING EQUIPMENT

- Ensure spark plug, muffler, fuel cap and air cleaner are in place.
- DO NOT crank engine with spark plug removed.
- If fuel spills, wait until it evaporates before starting engine.

WHEN OPERATING EQUIPMENT

- Do not tip engine or equipment at angle which causes fuel to spill.
- DO NOT spray flammable liquids.

WHEN TRANSPORTING OR REPAIRING EQUIPMENT

- Transport/repair with fuel tank EMPTY or with fuel shutoff valve OFF.
- Disconnect spark plug wire.

WHEN STORING FUEL OR EQUIPMENT WITH FUEL IN TANK

- Store away from furnaces, stoves, water heaters, clothes dryers or other appliances that have pilot light or other ignition source because they can ignite fuel vapors.

⚠ WARNING

The high pressure stream of water that this equipment produces can pierce skin and its underlying tissues, leading to serious injury and possible amputation.

Spray gun retains high pressure when pressure washer is shut down and water is disconnected, which can cause injury.

- NEVER aim spray gun at people, animals or plants.
- DO NOT allow CHILDREN to operate pressure washer.
- NEVER repair high pressure hose. Replace it.
- NEVER repair leaking connections with sealant of any kind. Replace o-ring or seal.
- Keep high pressure hose connected to pump and spray gun while system is pressurized.
- Squeeze trigger on spray gun to relieve trapped pressure, every time you stop engine. Engage trigger lock on spray gun.

⚠ WARNING

Running engines produce heat. Temperature of muffler and nearby areas can reach or exceed 150°F (65°C).

Severe burns can occur on contact.

Combustible debris, such as leaves, grass, brush, ect. can catch fire.

- DO NOT touch hot surfaces.
- Allow equipment to cool before touching.
- The pressure washer must be at least 5 feet from structures having combustible walls and/or other combustible materials.
- Keep at least 3 feet of clearance on all sides of pressure washer for adequate cooling, maintenance and servicing.
- In the State of California a spark arrester is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. If you equip the muffler with a spark arrester, it must be maintained in effective working order.

⚠ WARNING

Starter and other rotating parts can entangle hands, hair, clothing, or accessories.

- DO NOT wear loose clothing, jewelry or anything that may be caught in starter or other rotating parts.
- Tie up long hair and remove jewelry.

⚠ WARNING

Unintentional sparking can result in fire or electric shock.

WHEN ADJUSTING OR MAKING REPAIRS TO YOUR PRESSURE WASHER

- Disconnect the spark plug wire from the spark plug and place the wire where it cannot contact spark plug.

WHEN TESTING FOR ENGINE SPARK

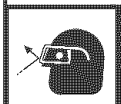
- Use approved spark plug tester.
- DO NOT check for spark with spark plug removed.

⚠ WARNING

Spray contact with electrical wiring can result in electrocution.

- Keep water spray away from electric wiring or fatal electric shock may result.

⚠ WARNING



High pressure spray can cause paint chips or other particles to become airborne.

- Always wear eye protection when using equipment or when in vicinity of equipment in use.

⚠ CAUTION

Excessively high or low operating speeds increase risk of injury and damage to pressure washer.

- DO NOT tamper with governed speed.
- DO NOT operate pressure washer above rated pressure.

⚠ CAUTION

A pressure washer produces a high pressure spray which increases risk of injury and damage to unit.

- DO NOT secure spray gun in open position.
- DO NOT leave spray gun unattended while machine is running.
- NEVER use a spray gun which does not have a trigger lock or trigger guard in place and in working order.
- Always be certain spray gun, nozzles and accessories are correctly attached.

CAUTION

High pressure spray may damage fragile items including glass.

- DO NOT point spray gun at glass when using MAX (pin point) nozzle.
- NEVER aim spray gun at plants.

CAUTION

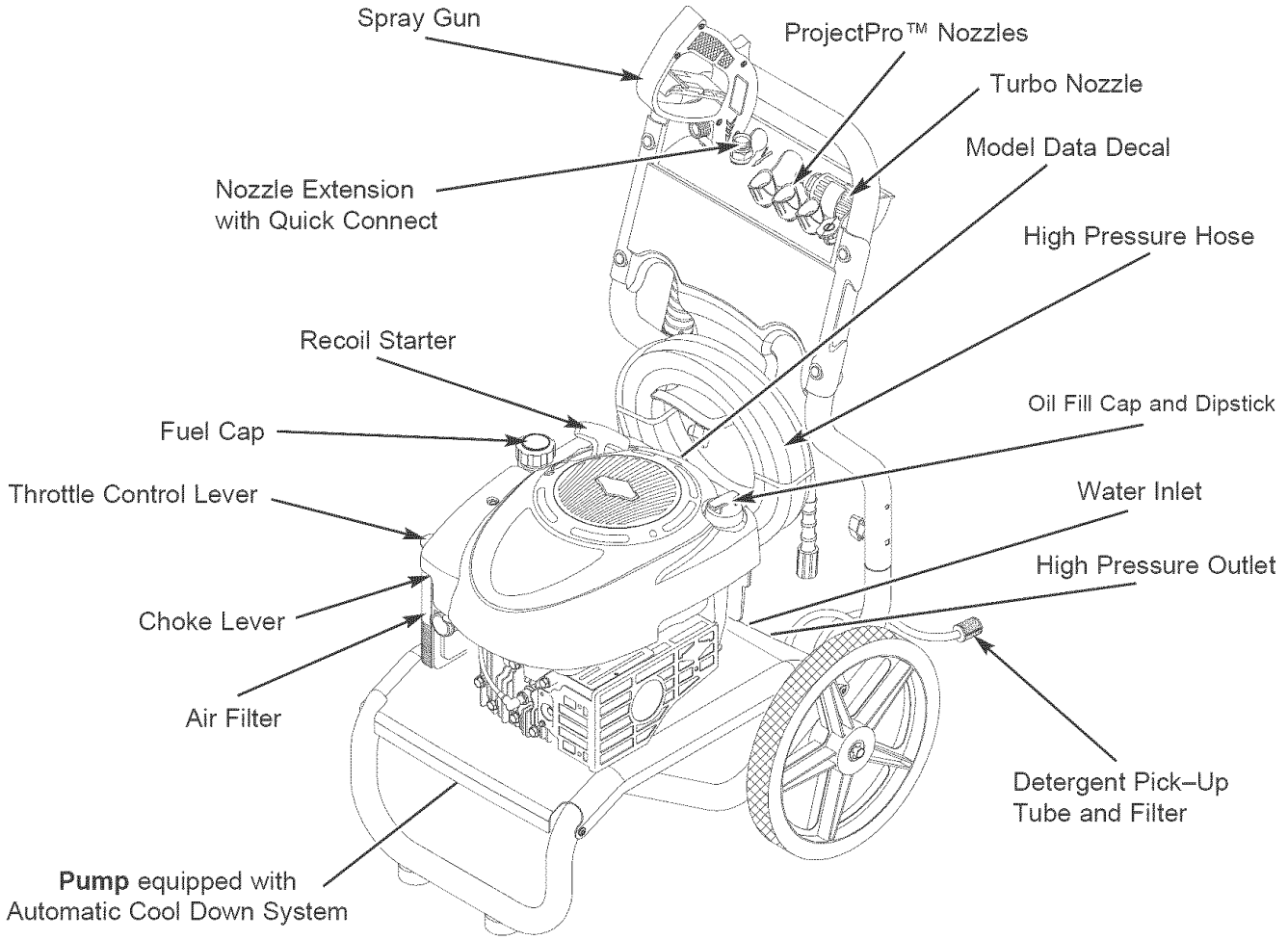
Improper treatment of pressure washer can damage it and shorten its life.

- If you have questions about intended use, ask dealer or contact Sears.
- NEVER operate units with broken or missing parts, or without protective housing or covers.
- DO NOT by–pass any safety device on this machine.
- Before starting pressure washer in cold weather, check all parts of the equipment to be sure ice has not formed there.
- NEVER move machine by pulling on high pressure hose. Use handle provided on unit.
- Check fuel system for leaks or signs of deterioration, such as chafed or spongy hose, loose or missing clamps, or damaged tank or cap. Correct all defects before operating pressure washer.
- This equipment is designed to be used with Sears authorized parts **ONLY**. If equipment is used with parts that DO NOT comply with minimum specifications, user assumes all risks and liabilities.

FEATURES AND CONTROLS

KNOW YOUR PRESSURE WASHER

Read the owner's manual and safety rules before operating your pressure washer.
Compare the illustrations with your pressure washer to familiarize yourself with the locations of various controls and adjustments. Save this manual for future reference.



Air Filter — Protects engine by filtering dust and debris out of intake air.

Automatic Cool Down System — Cycles water through pump when water reaches 125°-155°F. Warm water will discharge from pump onto ground. This system prevents internal pump damage.

Choke Lever — Used to help start a cold engine.

Detergent Pick–Up Tube and Filter – Use to draw detergent from chemical bottle to the low pressure water stream.

Fuel Cap – Fill engine with regular unleaded fuel here.

High Pressure Hose – Connect one end to the spray gun and other end to the high pressure outlet.

High Pressure Outlet – Connection for high pressure hose.

Model Data Decal – Provides model and serial number of pressure washer. Please have these readily available when calling for assistance.

Nozzle Extension with Quick Connect — Allows you to switch between four different nozzles.

Oil Fill Cap and Dipstick – Check and fill engine with oil here.

ProjectPro™ Nozzles — Detergent, Max, General, and Delicate nozzles: for various cleaning applications.

Pump – Develops high pressure water.

Recoil Starter – Used for starting the engine manually.

Spray Gun – Controls the application of water onto cleaning surface with trigger device. Includes trigger lock.

Throttle Control Lever – Sets engine in starting mode for recoil starter and stops running engine.

Turbo Nozzle — Rotates a high pressure stream in a rapid circular pattern.

Water Inlet – Connection for garden hose.

ASSEMBLY

Your pressure washer requires some assembly and is ready for use only after it has been properly serviced with the recommended oil and fuel.

If you have any problems with the assembly of your pressure washer, please call the pressure washer helpline at 1-800-222-3136.

REMOVE PRESSURE WASHER FROM CARTON

- Slice two corners of carton from top to bottom so the panel can be folded down flat.
- Remove fillers, accesories and parts bag shipped with your pressure washer.
- Roll pressure washer out open end of carton.
- Check carton for additional loose parts.

CARTON CONTENTS

Check all contents. If any parts are missing or damaged, call the pressure washer helpline at **1-800-222-3136**.

- The main unit
- Handle
- Accessory tray
- Spray gun
- High pressure hose
- Nozzle extension with quick connect fitting
- Turbo nozzle
- Engine oil
- Parts bag (which includes items listed below)
  - Owner's manual
  - Registration card
  - Bag containing 4 multi–colored ProjectPro™ nozzles
  - Fresh Start™ fuel cartridge
  - Handle fastening hardware kit (which includes):
    - Carriage bolt (2)
    - Plastic knobs (2)
    - Tree clips (4)

Become familiar with each piece before assembling the pressure washer. Check all contents against the illustration on page 5. If any parts are missing or damaged, call the pressure washer helpline at **1-800-222-3136**.

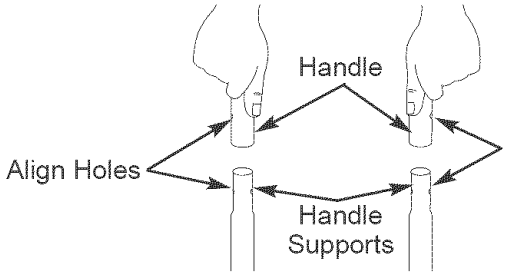
ASSEMBLING YOUR PRESSURE WASHER

Your Craftsman high pressure washer was mostly assembled at the factory. However, you will need to perform these tasks before you can operate your pressure washer:

1. Fill out and send in registration card.
2. Attach handle.
3. Add oil to engine crankcase.
4. Add fuel to fuel tank.
5. Connect pressure hose to spray gun and pump.
6. Connect water supply to pump.
7. Attach nozzle extension to spray gun.
8. Select/attach quick connect nozzle to nozzle extension.

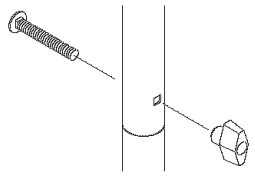
Attach Handle

1. Place handle onto handle supports connected to main unit. Make sure holes in handle align with holes on handle supports.

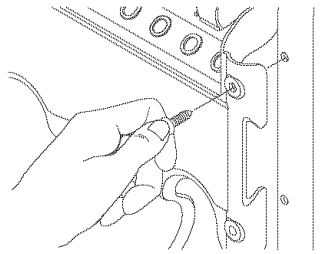


NOTE: It may be necessary to move the handle supports from side to side in order to align the handle so it will slide over the handle supports.

2. Insert carriage bolts through holes from outside of unit and attach a plastic knob from inside of unit. Tighten by hand.



3. Place accessory tray over holes on handle (viewing from front of unit). Push tree clips into holes until they sit flat against accessory tray.



4. Insert multi–colored ProjectPro™ nozzles and other supplied accessories in spaces provided in accessory tray. See "How to Use Accessory Tray".

Add Engine Oil

CAUTION! Any attempt to crank or start the engine before it has been properly serviced with the recommended oil may result in an engine failure.

1. Place pressure washer on a level surface.
2. Clean area around oil fill and remove oil dipstick.
3. Using oil funnel (optional), slowly pour entire contents of provided oil bottle (18 oz.) into oil fill opening.

4. Replace oil dipstick and fully tighten.

NOTE: See the section "Oil" on page 17 to review oil recommendations.

Add Fuel

NOTE: This gasoline engine is certified to operate on gasoline. Exhaust Emission Control System: EM (Engine Modifications).

⚠ WARNING

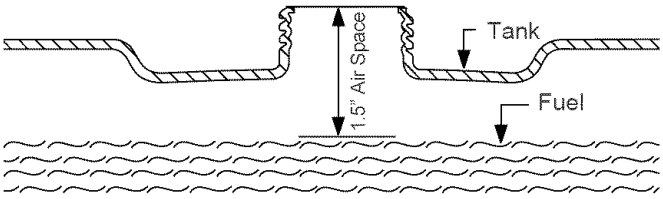
Fuel and its vapors are extremely flammable and explosive.

Fire or explosion can cause severe burns or death.

WHEN ADDING FUEL

- Turn pressure washer OFF and let it cool at least 2 minutes before removing fuel cap. Loosen cap slowly to relieve pressure in tank.
- Fill or drain fuel tank outdoors.
- DO NOT overfill tank. Allow space for fuel expansion.
- Keep fuel away from sparks, open flames, pilot lights, heat, and other ignition sources.
- DO NOT light a cigarette or smoke.

1. Use clean, fresh, regular UNLEADED fuel with a minimum of 77 octane with equipment. DO NOT use fuel which contains Methanol. DO NOT mix oil with fuel.
2. Clean area around fuel fill cap, remove cap.
3. Slowly add regular unleaded fuel to fuel tank. Be careful not to overfill. Allow about 1.5" of tank space for fuel expansion, as shown here.



4. Install fuel cap and wipe up any spilled fuel.

CAUTION! Alcohol-blended fuels (called gasohol, ethanol or methanol) can attract moisture, which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage.

To avoid engine problems, the fuel system should be emptied before storage of 30 days or longer. Drain the fuel tank, start the engine and let it run until the fuel lines and carburetor are empty. Use fresh fuel next season. See "Storage" on pages 20-21 for additional information.

NEVER use engine or carburetor cleaner products in the fuel tank as permanent damage may occur.

Fresh Start™ Fuel Cap

Adding fuel preserver helps keep fuel fresh and carburetors clean for easier starting, all season long. This new fuel cap automatically drips concentrated fuel preserver into your fuel tank.

⚠ DANGER

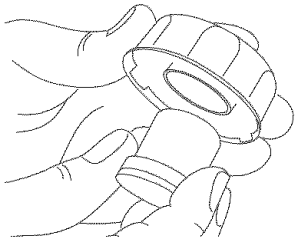
Contents are HARMFUL OR FATAL IF SWALLOWED. Avoid contact to eyes, skin or clothing. DO NOT take internally. Avoid breathing the mist or vapor. Overexposure to eyes or skin can cause irritation. Keep stabilizer out of the reach of children.

Fuel stabilizer is a hazardous chemical.**

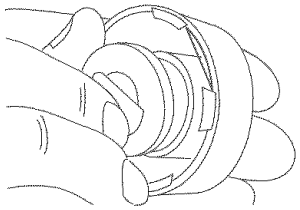
- If SWALLOWED, call physician immediately.
- In case of emergency, contact a physician immediately and call 1-800-424-9300 for material safety information.

**Fuel stabilizer contains: 2,6-di-tret-butylphenol (128-39-2) and aliphatic petroleum distillate (64742-47-8).

1. Place cartridge into fuel cap.

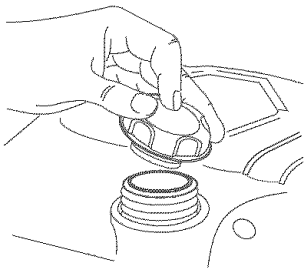


2. Push to "snap" cartridge into place.
3. Remove tab to expose membrane.



IMPORTANT: DO NOT remove the silver foil seal on the opposite side.

4. Reinstall fuel cap on fuel tank.

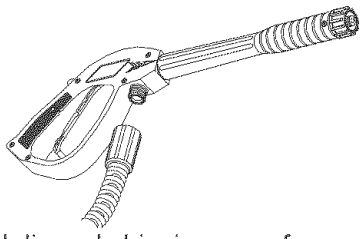


5. Periodically check the cartridge to ensure there is still fuel stabilizer inside. If it is empty, remove cartridge and replace.

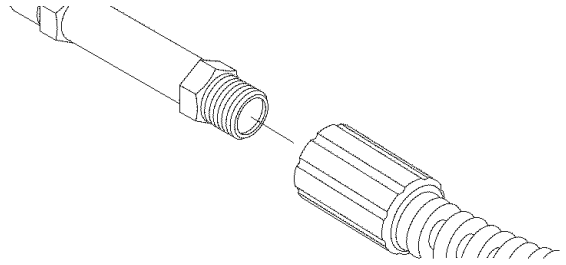
Connect Hose and Water Supply to Pump

IMPORTANT: To avoid pump damage, you must assemble the nozzle extension to the spray gun and attach all hoses before you start the engine.

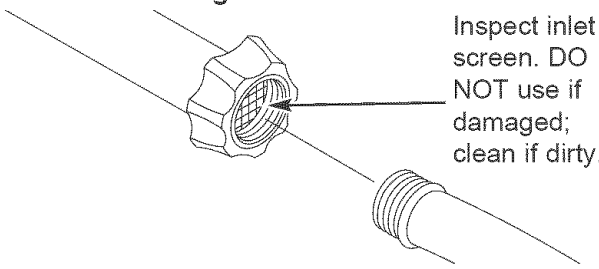
1. Uncoil high pressure hose and attach one end of hose to base of spray gun. Tighten by hand.



2. Remove and discard shipping caps from pump inlet and outlet.
3. Attach other end of high pressure hose to high pressure outlet on pump. Tighten by hand.



4. Before connecting garden hose to water inlet, inspect inlet screen. Clean screen if it contains debris or have it replaced if damaged. Refer to section "O-Ring Maintenance" if inlet screen is damaged. **DO NOT run pressure washer if inlet screen is damaged.**



5. Run water through garden hose for 30 seconds to flush it of debris. Turn off water.

IMPORTANT: DO NOT siphon standing water for the water supply. Use ONLY cold water (less than 100°F).

6. Connect garden hose (not to exceed 50 feet in length) to water inlet. Tighten by hand.

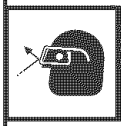
CAUTION

There MUST be at least ten feet of unrestricted garden hose between the pressure washer inlet and any flow shut off device, such as a 'Y' shut-off connector or other convenience-type water shut-off valve.

- Damage to equipment resulting from failure to follow this instruction will void warranty.

7. Turn ON water and squeeze trigger on spray gun to purge pump system of air and impurities.

⚠ WARNING



High pressure spray can cause paint chips or other particles to become airborne.

- Always wear eye protection when using this equipment or in vicinity of where equipment is in use.
- Before starting the pressure washer, be sure you are wearing adequate eye protection.

CHECKLIST BEFORE STARTING ENGINE

Review the assembly to ensure you have performed all of the following:

1. Check that oil has been added to proper level in engine crankcase.
2. Add proper fuel to fuel tank.
3. Check for properly tightened hose connections (high pressure and water supply) and for tight connections and that there are no kinks, cuts, or damage to the high pressure hose.
4. Provide proper water supply (not to exceed 100°F).
5. Be sure to read "Safety Rules" and "Operation" sections before using the pressure washer.
6. If starting unit after storage, see "Storage" section on pages 20-21.

OPERATION

HOW TO USE YOUR PRESSURE WASHER

If you have any problems operating your pressure washer, please call the pressure washer helpline at **1-800-222-3136**.

Pressure Washer Location

Pressure Washer Clearance

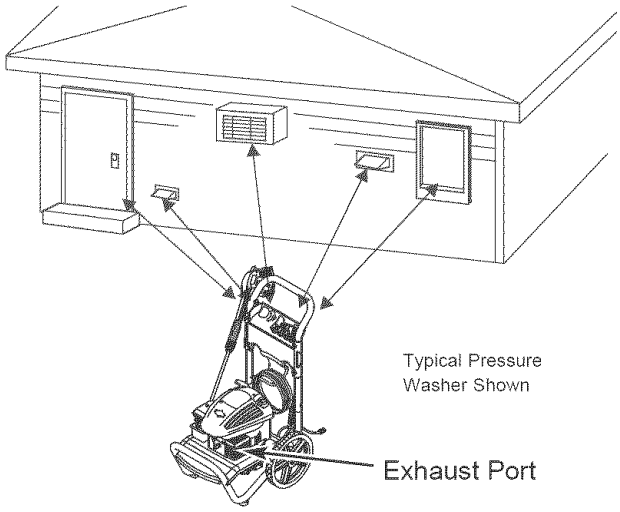
⚠ WARNING

Running engine gives off carbon monoxide, an odorless, colorless, poison gas.
Breathing carbon monoxide can cause nausea, fainting or death.

- Operate pressure washer ONLY outdoors.
- Keep exhaust gas from entering a confined area through windows, doors, ventilation intakes or other openings.
- DO NOT operate pressure washer inside any building or enclosure, even if doors or windows are open.

The pressure washer must be at least 5 ft. (152 cm) from structures having combustible walls and/or other combustible materials. Leave at least 3 ft. (92 cm) all around pressure washer including overhead, for adequate cooling, maintenance and servicing.

Place pressure washer in a well ventilated area, which will allow for removal of deadly exhaust gas. DO NOT place pressure washer where exhaust gas could accumulate and enter inside or be drawn into a potentially occupied building. Ensure exhaust gas is kept away from any windows, doors, ventilation intakes or other openings that can allow exhaust gas to collect in a confined area. Prevailing winds and air currents should be taken into consideration when positioning pressure washer.



To Start Your Pressure Washer

To start your engine-powered pressure washer for the first time, follow these instructions step-by-step. This starting information also applies whenever you start the engine after you have let the pressure washer sit idle for at least a day.

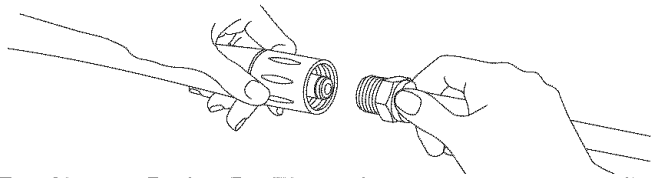
1. Place pressure washer near an outside water source capable of supplying water at a flow rate greater than 3.3 gallons per minute and no less than 20 PSI at pressure washer end of garden hose.
2. Check that high pressure hose is tightly connected to spray gun and pump. See "Assembling Your Pressure Washer" for illustrations.
3. Make sure unit is in a level position.
4. Connect garden hose to water inlet on pressure washer pump. **Turn ON water.**

CAUTION

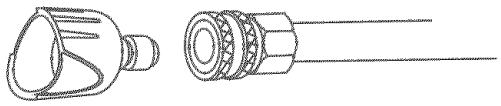
DO NOT run the pump without the water supply connected and turned on.

- Damage to equipment will result from failure to follow this instruction.

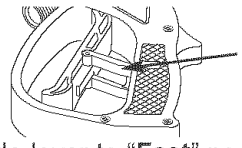
5. Squeeze trigger on gun to purge pump system of air and impurities.
6. Attach nozzle extension to spray gun. Tighten by hand.



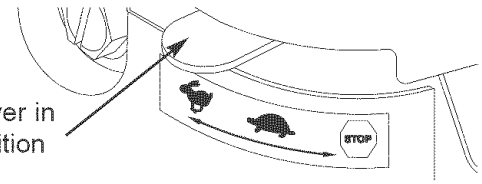
7. Choose ProjectPro™ nozzle you want to use, pull back on collar of nozzle extension, insert nozzle and release collar. Tug on nozzle to make sure it is securely in place. See "How to Use ProjectPro™ Nozzle System".



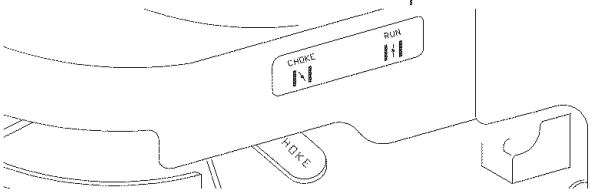
8. Engage trigger lock to spray gun trigger.



9. Move throttle lever to "**Fast**" position, shown here as a rabbit.



10. Move choke lever to "**Choke**" position.



NOTE: For a warm engine, be sure the choke lever is in the "**Run**" position.

11. When starting engine, position yourself as recommended below. Grasp handle and pull recoil starter lightly until you feel some resistance, then pull briskly.

12. Return recoil starter slowly. DO NOT let rope "snap back" against starter.

⚠ WARNING

Rapid retraction of starter cord (kickback) will pull hand and arm toward engine faster than you can let go.

Broken bones, fractures, bruises or sprains could result.

- When starting engine, pull cord slowly until resistance is felt and then pull rapidly to avoid kickback.
- If engine starts and fails to continue to run or if increased resistance is felt during starting pull attempts, squeeze trigger on spray gun.

13. When engine starts, slowly move choke lever to "**Run**" position, as engine warms. If engine falters, move choke lever to "**Choke**" position, then to "**Run**" position.
14. If engine fires, but does not continue to run, squeeze trigger on spray gun to relieve internal pump pressure. Move choke lever to "**Run**" position, and repeat steps 11 through 13.

IMPORTANT: If engine floods, place choke lever in "**Run**" position and crank until engine starts.

⚠ WARNING

Running engines produce heat. Temperature of muffler and nearby areas can reach or exceed 150°F (65°C).

Severe burns can occur on contact.

Combustible debris, such as leaves, grass, brush, ect. can catch fire.

- DO NOT touch hot surfaces.
- Allow equipment to cool before touching.
- The pressure washer must be at least 5 feet from structures having combustible walls and/or other combustible materials.
- Keep at least 3 feet of clearance on all sides of pressure washer for adequate cooling, maintenance and servicing.
- In the State of California a spark arrester is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. If you equip the muffler with a spark arrester, it must be maintained in effective working order.

NOTE: Always keep the throttle lever in the "**Fast**" position when operating the pressure washer.

How to Stop Your Pressure Washer

1. Let engine idle for two minutes.
2. Move throttle lever on engine to "**Stop**" position.

CAUTION

DO NOT stop engine by moving choke lever to "**Choke**" position. Backfire, fire or engine damage could occur.

3. **Squeeze trigger on spray gun to relieve trapped pressure in hose to avoid injury.**

NOTE: A small amount of water will squirt out when pressure is released.

⚠ WARNING

The high pressure stream of water that this equipment produces can pierce skin and its underlying tissues, leading to serious injury and possible amputation.

Spray gun retains high pressure when pressure washer is shut down, which can cause injury.

- Keep high pressure hose connected to pump and spray gun while system is pressurized.
- Squeeze trigger on spray gun to relieve trapped pressure, every time you stop engine. Engage trigger lock on spray gun.

4. Engage trigger lock on spray gun when not in use.

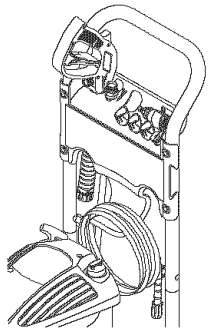
How to Use Accessory Tray

The unit is equipped with an accessory tray with places to store your ProjectPro™ nozzles, turbo nozzle, spray gun and nozzle extension. There is also a hook at the front of the accessory tray to hold your high pressure hose.

NOTE: The extra hole in the tray is for storing a utility brush. The brush is NOT included with your pressure washer. You can buy this item as an optional accessory.

1. Place nozzle extension through hole on accessory tray, as shown.

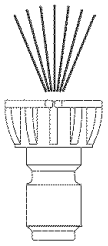
Typical Pressure Washer Shown



2. Place spray gun through hole on accessory tray on right side of unit.
3. Push turbo nozzle up and into clip on accessory tray until it snaps in.
4. Insert multi–colored ProjectPro™ nozzles in spaces provided in accessory tray.
5. Hang high pressure hose on hook attached to accessory tray on front of tray as shown.

How to Use ProjectPro™ Nozzle System

The quick–connect on the nozzle extension allows you to switch between four different ProjectPro™ system nozzles. The ProjectPro™ nozzles vary the spray pressure and pattern as shown.

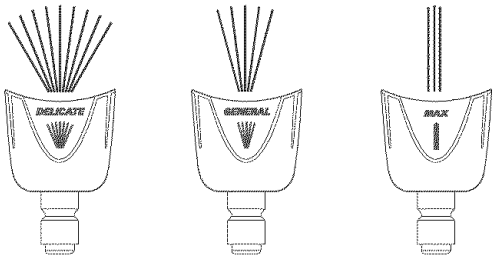


Low Pressure

Black

Use to apply detergent

High Pressure



Delicate	General	Max
40° Yellow	15° Orange	0° Red
1750 PSI	2200 PSI	2550 PSI
2.3 GPM	2.2 GPM	2.0 GPM

Follow these instructions to change ProjectPro™ nozzles:

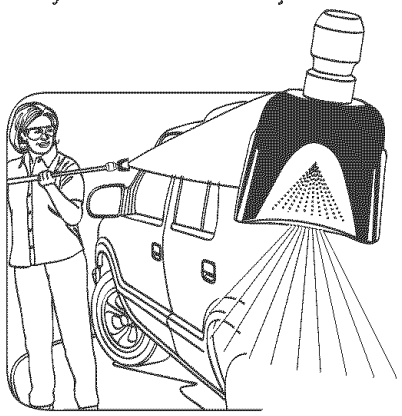
1. Engage trigger lock on spray gun.

⚠ CAUTION

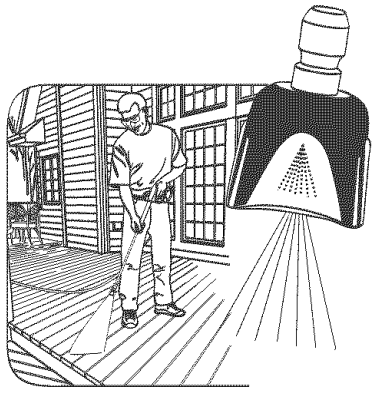
A pressure washer produces a high pressure spray which increases risk of injury and damage to unit.

- NEVER exchange ProjectPro™ nozzles without locking the trigger lock on the trigger.
- DO NOT twist ProjectPro™ nozzles while spraying.

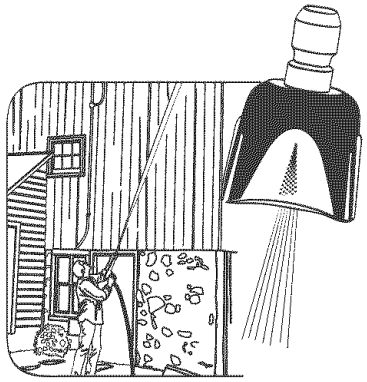
2. Pull back collar on quick–connect and pull current ProjectPro™ nozzle off. Store ProjectPro™ nozzles in holder provided on the accessory tray.
3. Select desired ProjectPro™ nozzle:
   - For delicate rinse (lower pressure and higher flow), for gentle cleaning of cars/trucks, boats, RV's, patio furniture, lawn equipment, etc., select yellow Delicate ProjectPro™ nozzle.



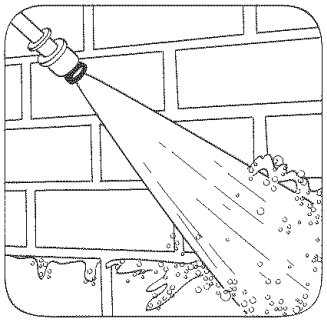
   - For general rinsing (medium pressure and medium flow), ideal for most all purpose cleaning such as home siding, brick patios, wood decks, driveways and sidewalks, garage floors, etc., select orange General ProjectPro™ nozzle.



- For maximum rinsing (higher pressure and lower flow), for stubborn or hard to reach surface such as second story surfaces, paint removal, oil stains, rust removal or other stubborn substances (tar, gum, grease, wax, etc.), select red Max ProjectPro™ nozzle.



- To apply detergent, applies project specific cleaners to help break down stubborn dirt and grime on a variety of surfaces, select black ProjectPro™ cleaning detergent nozzle.



4. Pull back on collar, insert selected ProjectPro™ nozzle and release collar. Tug on ProjectPro™ nozzle to make sure it is securely in place.
5. For most effective cleaning, keep ProjectPro™ nozzle from 8 to 24 inches away from cleaning surface. If you get the nozzle too close, you may damage the cleaning surface.
6. DO NOT get closer than 6 inches when cleaning tires.

How to Use the Turbo Nozzle

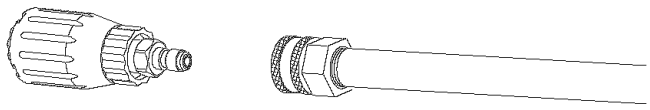
The turbo nozzle rotates the high pressure stream in a rapid circular pattern. Always start the turbo nozzle at a distance, gradually getting closer to the surface until you get the cleaning force you want.

⚠ CAUTION

The turbo nozzle produces an extremely high pressure spray which is capable of removing paint and cutting holes through surfaces if held too close.

- Always make sure the surface you will clean will not be damaged by the high pressure spray by testing in a hidden area.

1. Pull back collar on quick–connect and pull current ProjectPro™ nozzle off. Store ProjectPro™ nozzles in holder provided on the accessory tray.
2. Pull back on collar, insert turbo nozzle and release collar. Tug on turbo nozzle to make sure it is securely in place.



3. For most effective cleaning, keep turbo nozzle from 8 to 24 inches away from cleaning surface. If you get turbo nozzle too close, you may damage cleaning surface.

NOTE: Detergent cannot be applied with the turbo nozzle.

Cleaning and Applying Detergent

IMPORTANT: Use detergents designed specifically for pressure washers. Household detergents could damage the pump.

CAUTION

You must attach all hoses before you start the engine.

- Starting the engine without all the hoses connected and without the water turned ON will damage the pump.
- Damage to equipment resulting from failure to follow this instruction will void warranty.

To apply detergent follow these steps:

1. Review ProjectPro™ nozzle use.
2. Prepare detergent solution as required by manufacturer.
3. Place filter end of detergent siphoning tube into detergent container.

CAUTION

Keep the chemical injection tube from coming in contact with the hot muffler.

- When inserting the filter into a detergent solution bottle, route the tube so as to keep it from inadvertently contacting the hot muffler.

4. Make sure black ProjectPro™ cleaning detergent nozzle is installed.

NOTE: Detergent cannot be applied with the high pressure nozzles (Yellow, Orange or Red).

5. Make sure garden hose is connected to water inlet. Check that high pressure hose is connected to spray gun and pump and start engine.
6. Apply detergent to a dry surface, starting at lower portion of area to be washed and work upward, using long, even, overlapping strokes.
7. Allow detergent to soak in between 3–5 minutes before washing and rinsing. Reapply as needed to prevent surface from drying. DO NOT allow detergent to dry on (prevents streaking).

IMPORTANT: You must flush the chemical injection system after each use by placing the filter into a bucket of clean water, then run the pressure washer in low pressure for 1-2 minutes.

Pressure Washer Rinsing

For Rinsing:

1. Apply trigger lock to spray gun.
2. Remove black cleaning detergent nozzle from nozzle extension.
3. Select and install desired high pressure nozzle following instructions "How to Use ProjectPro™ Nozzle System".
4. Keep spray gun a safe distance from the area you plan to spray.

⚠ WARNING

High pressure spray could cause you to fall if you are too close to the cleaning surface.

- Keep spray nozzle between 8 to 24 inches away from cleaning surface.
- Operate this unit on a stable surface.
- Be extremely careful if you must use the pressure washer from a ladder, scaffolding or any other relatively unstable location.
- Firmly grasp spray gun with both hands when using high pressure spray to avoid injury if gun kicks back.

5. Apply a high pressure spray to a small area and then check the surface for damage. If no damage is found, you can assume it is okay to continue rinsing.
6. Start at top of area to be rinsed, working down with same overlapping strokes as you used for cleaning.

Cleaning Detergent Siphoning Tube

If you used the detergent siphoning tube, you must flush it with clean water before stopping the engine.

1. Place chemical injection siphon/filter in a bucket full of clean water.
2. Attach black cleaning detergent nozzle.
3. Flush for 1-2 minutes.
4. Shut off engine.

IMPORTANT: Simply shutting **OFF** engine will not release pressure in the system. **When the engine has shut down, squeeze the trigger on the spray gun to relieve the pressure in the hose.**

Automatic Cool Down System (Thermal Relief)

If you run the engine on your pressure washer for 3-5 minutes without pressing the trigger on the spray gun, circulating water in the pump can reach temperatures above 125°F. The system engages to cool the pump by **discharging the warm water onto the ground**.

SPECIFICATIONS

ENGINE TECHNICAL INFORMATION

This is a single cylinder, L-head, air cooled engine. It is a low emissions engine.

In the State of California, Model Series 120000 engines are certified by the California Air Resources Board to meet emissions standards for 125 hours. Such certification does not grant the purchaser, owner or operator of this engine any additional warranties with respect to the performance or operational life of this engine. The engine is warranted solely according to the product and emmisions warranties stated elsewhere in this manual.

Power Ratings

The power ratings for an individual engine model are initially developed by starting with SAE (Society of Automotive Engineers) code J1940 (Small Engine Power & Torque Rating Procedure) (Revision 2002-05). Given both the wide array of products on which our engines are placed, and the variety of environmental issues applicable to operating the equipement, it may be that the engine you have purchased will not develop the rated horsepower when used in a peice of power equipment (actual "on-site" power). This difference is due to a variety of factors including, but not limited to, the following: differences in altitude, temperature, barometric pressure, humidity, fuel, engine lubrication, maximum governed engine speed, individual engine to engine variability, design of the particular peice of power equipment, the manner in which the engine is operated, engine run-in to reduce friction and clean out of combustion chambers, adjustments to the valves and carburetor, and other factors. The power ratings may also be adjusted based on comparisons to other similar engines utilizedin similar applications, and will thereforenot necessarily match the values derived using the foregoing codes.

PRODUCT SPECIFICATIONS

Pressure Washer Specifications

Max Outlet Pressure . . . . . 2,550 PSI
Max Flow Rate . . . . . 2.3 GPM
Detergent Mix . . . . . Use as directed
Water Supply Temperature . . . . Not to exceed 100°F
Shipping Weight . . . . . 63 lbs.

Engine Specifications

Rated Horsepower . . . . . 6.75 at 3600 rpm
Bore . . . . . 2.69 in. (68mm)
Stroke . . . . . 2.04 in. (52mm)
Displacement . . . . . 11.57 in. (190 cc)
Spark Plug
  Type: . . . . . Champion RJ19LM or Equivalent
  Set Gap To: 0.030inch (0.76mm)
Armature Air Gap: . . . . . 0.006-0.010 in.(0.15-0.25mm)
Valve clearance with valve springs installed and piston 1/4 in. (6 mm) past top dead center (check when engine is cold).
Intake . . . . . 0.005-0.007 in.(0.13-0.18 mm)
Exhaust . . . . . 0.005-0.007 in.(0.13-0.18 mm)
Fuel Capacity . . . . . 1.6 Quarts
Oil Capacity . . . . . 20 Ounces (0.6 liter)
Oil Type:
  Above 40° F . . . . . SAE 30
  Below 40° F . . . . . SAE 5W-30 or 10W-30

NOTE: For practical operation, the horsepower loading should not exceed 85% of rated horsepower. Engine power will decrease 3-1/2% for each 1,000 feet (300 meters) above sea level and 1% for each 10° F (5.6° C) above 77° F (25° C). It should operate satisfactorily at an angle up to 15°.

MAINTENANCE

OWNER'S RESPONSIBILITIES

Follow the hourly or calendar intervals, whichever occurs first.
More frequent service is required when operating in adverse conditions noted below.

MAINTENANCE SCHEDULE FILL IN DATES AS YOU COMPLETE REGULAR SERVICE MAINTENANCE TASK	SERVICE DATES Before Each Use	Every 25 Hours or Yearly	Every 50 Hours or Yearly	Every 100 Hours or Yearly	100-300 Hours	SERVICE DATES		
PRESSURE WASHER Check/clean water inlet screen	X[1]							
Check high pressure hose	X							
Check detergent hose	X							
Check spray gun and assembly for leaks	X							
Purge pump of air and contaminants	X							
Change pump oil			X					
Prepare pump for storage below 32°F	See Storage on pages 20-21.							
ENGINE Check oil level	X							
Clean debris	X							
Change engine oil			X[2]					
Service air cleaner		X[3]						
Service spark plug				X				
Service spark arrester			X					
Clean cooling system				X[2]				
Clean combustion chamber					X			
Prepare for storage	If unit is to remain idle for longer than 30 days.							

[1] Clean if clogged. Replace if perforated or torn.
[2] Change oil after the first (5) operating hours and every 50 hours or yearly thereafter. Change sooner when operating under dirty or dusty conditions.
[3] Replace more often under dirty or dusty conditions.

GENERAL RECOMMENDATIONS

Regular maintenance will improve the performance and extend the life of the pressure washer. See any authorized Sears dealer for service.

The pressure washer warranty does not cover items that have been subjected to operator abuse or negligence. To receive full value from the warranty, the operator must maintain pressure washer as instructed in this manual including proper storage as detailed in "Storage" on pages 20-21.

Some adjustments will need to be made periodically to properly maintain your pressure washer.

All service and adjustments should be made at least once each season. Follow the requirements in the "Maintenance Schedule" chart above.

NOTE: Once a year you should clean or replace the spark plug and replace the air filter. A new spark plug and clean air filter assure proper fuel-air mixture and help your engine run better and last longer.

EMISSION CONTROL

Maintenance, replacement or repair of the emission control devices and systems may be performed by any non-road engine repair establishment or individual.

BEFORE EACH USE

1. Check engine oil level.
2. Clean debris.
3. Check water inlet screen for damage.
4. Check in-line filter for debris.
5. Check high pressure hose for leaks.
6. Check chemical filters for damage.
7. Check gun and nozzle extension assembly for leaks.
8. Purge pump of air and contaminants.

PRESSURE WASHER MAINTENANCE

Clean Debris

Daily or before use, clean accumulated debris from cleaning system. Keep linkage, spring and controls clean. Keep area around and behind muffler free from any combustible debris.

Cleaning system parts should be kept clean to reduce the risk of overheating and ignition of accumulated debris.

CAUTION

Improper treatment of pressure washer can damage it and shorten its life.

- DO NOT insert any objects through cooling slots.

- Use a damp cloth to wipe exterior surfaces clean.
- Use a soft bristle brush to loosen caked on dirt, oil, etc.
- Use a vacuum cleaner to pick up loose dirt and debris.
- Use low pressure air (not to exceed 25 psi) to blow away dirt. Inspect cooling air slots and openings on the pressure washer. These openings must be kept clean and unobstructed.

Check and Clean Inlet Screen

Examine garden hose inlet screen. Clean if it is clogged or replace if it is torn.

Check High Pressure Hose

High pressure hoses can develop leaks from wear, kinking, or abuse. Inspect hose before each use. Check for cuts, leaks, abrasions, bulging of cover, or damage or movement of couplings. If any of these conditions exist, replace hose immediately.

⚠ WARNING

The high pressure stream of water that this equipment produces can pierce skin and its underlying tissues, leading to serious injury and possible amputation.

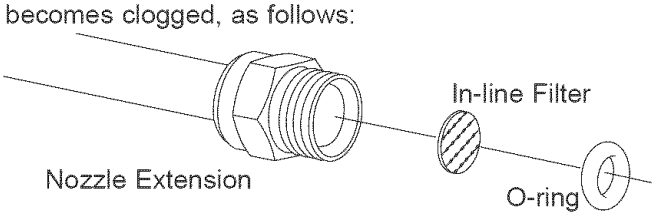
- NEVER repair high pressure hose. Replace it.
- Replacement hose rating MUST exceed maximum pressure rating of unit.

Check Gun and Nozzle Extension

Examine hose connection to spray gun and make sure it is secure. Test trigger by pressing it and making sure it springs back into place when you release it. Put trigger lock in UP position and test trigger. You should not be able to press trigger. Replace spray gun immediately if it fails any of these tests.

Check In-Line Filter

Refer to the illustration and service the in-line filter if it becomes clogged, as follows:

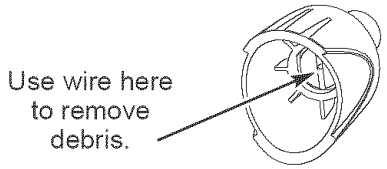


1. Detach spray gun from high pressure hose. Detach nozzle extension from spray gun and remove o-ring and screen from nozzle extension. Flush screen, spray gun, and nozzle extension with clean water to clear debris.
2. Place in-line filter screen into threaded end of nozzle extension. Direction does not matter. Push screen in with eraser end of pencil until it rests flat at bottom of opening. Take care to not bend screen.
3. Place o-ring into recess. Push o-ring snugly against in-line filter screen.
4. Assemble nozzle extension to spray gun, as described earlier in manual.

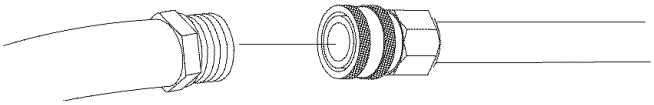
Nozzle Maintenance

A pulsing sensation felt while squeezing the spray gun trigger may be caused by excessive pump pressure. The principal cause of excessive pump pressure is a nozzle clogged or restricted with foreign materials, such as dirt, etc. To correct the problem, immediately clean the nozzle following these instructions:

1. Shut off engine and turn off water supply.
2. Remove nozzle from end of nozzle extension.
3. Remove in-line filter from other end of nozzle extension.
4. Use a small paper clip to free any foreign material clogging or restricting nozzle.



5. Using a garden hose, remove additional debris by back flushing water through nozzle extension. Back flush between 30 to 60 seconds.



6. Reinstall nozzle and in-line filter into nozzle extension.
7. Reconnect nozzle extension to spray gun.
8. Reconnect water supply, turn on water, and start engine.
9. Test pressure washer by operating with each quick connect nozzle.

O–Ring Maintenance

Purchase an O–Ring Repair Kit at your local Sears or by calling **1-800-366-PART** or online at www.sears.com. It is not included with the pressure washer. This kit includes replacement o-rings, rubber washer and water inlet filter. Refer to the instruction sheet provided in the kit to service your unit's o-rings.

⚠ WARNING

The high pressure stream of water that this equipment produces can pierce skin and its underlying tissues, leading to serious injury and possible amputation.

- NEVER repair leaking connections with sealant of any kind. Replace o-ring or seal.

Pump Maintenance

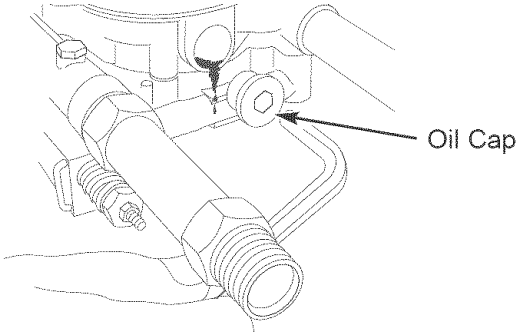
Changing Pump Oil

Change oil every 50 hours or once yearly, whichever occurs first.

NOTE: You must purchase an approved bottle of pump oil by calling **1-800-366-PART** or online at www.sears.com.

Change pump oil as follows:

1. Drain engine oil and fuel from pressure washer.
2. Use a 8mm allen wrench to remove black pump oil cap between high pressure outlet and garden hose inlet.



3. Tilt pressure washer to drain oil into an approved container until it drips slowly from pump.
4. Tilt pressure washer in opposite direction and empty premeasured pump oil bottle into same opening (a small funnel may be helpful).
5. Install black pump oil cap and tighten firmly.
6. Set pressure washer in upright position. Add fuel and engine oil.

ENGINE MAINTENANCE

⚠ WARNING

Unintentional sparking can result in fire or electric shock.

WHEN ADJUSTING OR MAKING REPAIRS TO YOUR PRESSURE WASHER

- Disconnect the spark plug wire from the spark plug and place the wire where it cannot contact spark plug.

WHEN TESTING FOR ENGINE SPARK

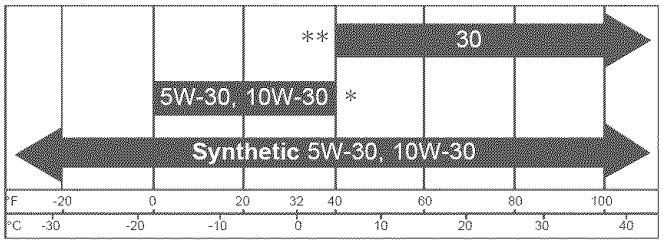
- Use approved spark plug tester.
- DO NOT check for spark with spark plug removed.

Oil

Oil Recommendations

NOTE: When adding oil to the engine crankcase, use only high quality detergent oil rated with API service classification SF, SG, SH, SJ or higher. DO NOT use special additives.

1. Choose a viscosity according to the following table:



STARTING TEMPERATURE RANGE ANTICIPATED BEFORE NEXT OIL CHANGE

NOTE: Synthetic oil meeting ILSAC GF-2, API certification mark and API service symbol with "SJ/CF ENERGY CONSERVING" or higher, is an acceptable oil at all temperatures. Use of synthetic oil does not alter required oil change intervals.

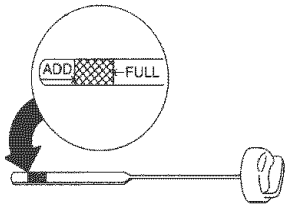
* The use of multi-viscosity oils (5W-30, 10W-30, etc.) in temperatures above 40°F (4°C) will result in higher than normal oil consumption. When using a multi-viscosity oil, check oil more frequently.

** If using SAE 30 oil in temperatures below 40°F (4°C), it will result in hard starting and possible engine bore damage due to inadequate lubrication.

Checking Oil Level

Oil level should be checked prior to each use or at least every 5 hours of operation. Keep oil level maintained.

1. Make sure pressure washer is on a level surface.
2. Remove oil dipstick and wipe dipstick with clean cloth. Replace and tighten dipstick. Remove and and check oil level.
3. Verify oil is at "**Full**" mark on dipstick. Replace and tighten dipstick.



Adding Engine Oil

1. Make sure pressure washer is on a level surface.
2. Check oil level as described in "Checking Oil Level".
3. If needed, slowly pour oil into oil fill opening to the "**Full**" mark on dipstick. DO NOT overfill.
4. Replace and tighten dipstick.

Changing Engine Oil

Change engine oil after the first 5 hours and every 50 hours thereafter. If you are using your pressure washer under extremely dirty or dusty conditions, or in extremely hot weather, change oil more often.

⚠ CAUTION

Avoid prolonged or repeated skin contact with used motor oil.

- Used motor oil has been shown to cause skin cancer in certain laboratory animals.
- Thoroughly wash exposed areas with soap and water.

KEEP OUT OF REACH OF CHILDREN. DON'T POLLUTE. CONSERVE RESOURCES. RETURN USED OIL TO COLLECTION CENTERS.

Change oil while engine is still warm from running, as follows:

1. Drain fuel tank by running pressure washer until fuel tank is empty.
2. Disconnect spark plug wire and keep it away from spark plug.
3. Clean area around oil fill, remove oil fill cap/dipstick. Wipe dipstick clean.
4. Tip your pressure washer to drain oil from oil fill into a suitable container making sure you tip your unit away from spark plug. When crankcase is empty, return pressure washer to upright position.
5. Slowly pour recommended oil (about 20 oz.) into oil fill opening. Pause to permit oil to settle. Fill to "**Full**" mark on dipstick.
6. Wipe dipstick clean each time oil level is checked. DO NOT overfill.
7. Replace and tighten dipstick.
8. Wipe up any remaining oil.
9. Reconnect spark plug wire to spark plug.

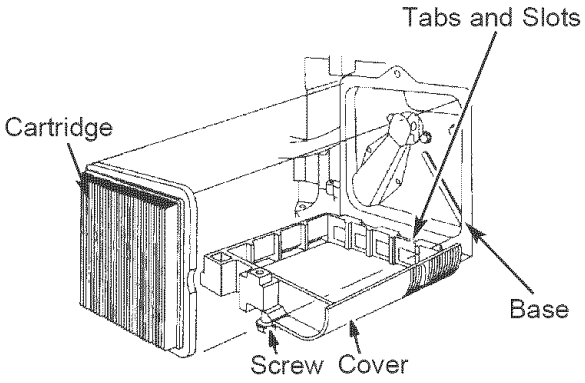
Service Air Cleaner

Your engine will not run properly and may be damaged if you run it with a dirty air cleaner.

Service the air cleaner once every 25 hours of operation or once each year, whichever comes first. Service more often if operating under dirty or dusty conditions. Replacements are available at your local Sears service center.

To service the air cleaner, follow these steps:

1. Loosen screw and tilt cover down.



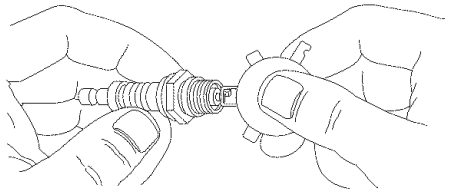
2. Carefully remove cartridge assembly.
3. To clean cartridge, gently tap pleated paper side on a flat surface.
4. Reinstall clean or new cartridge assembly inside cover.
5. Insert cover's tabs into slots in bottom of base.
6. Tilt cover up and tighten screw securely to base.

NOTE: You can purchase new air filter elements by calling **1-800-366-PART**.

Service Spark Plug

Service the spark plug every 100 hours of operation or yearly, whichever occurs first.

1. Clean area around spark plug.
2. Remove and inspect spark plug.
3. Replace spark plug with recommended plug if electrodes are worn or if insulator is cracked or chipped.
4. Check electrode gap with wire feeler gauge and set gap at 0.030 inches (0.76mm), if necessary.



5. Install spark plug, tighten securely.

NOTE: You can purchase a new spark plug by calling **1-800-366-PART**.

Spark Arrester Service

Your engine is not factory-equipped with a spark arrester. In some areas, it is illegal to operate an engine without a spark arrester. Check local laws and regulations. A spark arrester is available from your nearest Sears service center. If you need to order a spark arrester, please call **1-800-366-PART**.

The spark arrester must be serviced every 50 hours to keep it functioning as designed.

If the engine has been running, the muffler will be very hot. Allow the muffler to cool before servicing the spark arrester.

⚠ WARNING

Running engines produce heat. Temperature of muffler and nearby areas can reach or exceed 150°F (65°C).

Severe burns can occur on contact. Combustible debris, such as leaves, grass, brush, ect. can catch fire.

- DO NOT touch hot surfaces.
- Allow equipment to cool before touching.
- The pressure washer must be at least 5 feet from structures having combustible walls and/or other combustible materials.
- Keep at least 3 feet of clearance on all sides of pressure washer for adequate cooling, maintenance and servicing.
- In the State of California a spark arrester is required by law (Section 4442 of the California Public Resources Code). Other states may have similar laws. Federal laws apply on federal lands. If you equip the muffler with a spark arrester, it must be maintained in effective working order.
- Remove spark arrester screen for cleaning and inspection.
- Replace if screen is damaged.

Air Cooling System

Over time debris may accumulate in cylinder cooling fins and cannot be observed without partial engine disassembly. For this reason, we recommend you have an authorized Sears service dealer clean the cooling system per recommended intervals (see "Maintenance Schedule" on page 15). Equally important is to keep top of engine free from debris. See "Clean Debris".

Clean Combustion Chamber

We recommend you have an authorized Sears service dealer remove combustion deposits from the cylinder, cylinder head, top of piston and around valves per recommended intervals (see "Maintenance Schedule" on page 15).

STORAGE

AFTER EACH USE

Water should not remain in the unit for long periods of time. Sediments or minerals can deposit on pump parts and "freeze" pump action. Follow these procedures after every use:

1. Flush detergent siphoning tube by placing the filter into a pail of clean water while running pressure washer in low pressure mode. Flush for one to two minutes.
2. Shut off engine, let it cool, then remove all hoses.
3. Disconnect spark plug wire from spark plug.
4. Empty pump of all liquids by pulling recoil handle about 6 times. This should remove most liquid in pump.
5. If storing for more than 30 days see "Long Term Storage" on next page.
6. Coil high pressure hose and inspect it for damage. Cuts in hose or fraying could result in leaks and loss of pressure. Should any damage be found, replace hose. DO NOT attempt to repair a damaged hose. Replace hose with genuine Sears part.
7. Disconnect hose from spray gun and high pressure outlet on pump. Drain water from hose, gun, and nozzle extension. Use a rag to wipe off the hose.
8. Coil hose and properly hang it on accessory tray provided.
9. Reconnect spark plug wire to spark plug.
10. Store unit in a clean, dry area.

⚠ WARNING

Fuel and its vapors are extremely flammable and explosive.

Fire or explosion can cause severe burns or death.

WHEN STORING FUEL OR EQUIPMENT WITH FUEL IN TANK

- Store away from furnaces, stoves, water heaters, clothes dryers or other appliances that have pilot light or other ignition source because they can ignite fuel vapors.

WHEN DRAINING FUEL

- Turn pressure washer OFF and let it cool at least 2 minutes before removing fuel cap. Loosen cap slowly to relieve pressure in tank.
- Drain fuel tank outdoors.
- Keep fuel away from sparks, open flames, pilot lights, heat, and other ignition sources.
- DO NOT light a cigarette or smoke.

WINTER STORAGE

CAUTION

You must protect your unit from freezing temperatures.

- Failure to do so will permanently damage your pump and render your unit inoperable.
- Freeze damage is not covered under warranty.

To protect the unit from freezing temperatures:

1. Flush detergent siphoning tube by placing filter into a pail of clean water while running pressure washer in low pressure mode. Flush for one to two minutes.
2. Empty pump of all pumped liquids by pulling recoil handle about 6 times. This should remove most liquid in pump.
3. Use pump saver, available at Sears retail item 71-74403, to treat pump. This minimizes freeze damage and lubricates pistons and seals.
4. If pump saver is not available, connect a 3-foot section of garden hose to water inlet adapter. Pour RV–antifreeze (antifreeze without alcohol) into hose. Pull recoil handle twice. Disconnect 3-foot hose.

LONG TERM STORAGE

If you do not plan to use the pressure washer for more than 30 days, you must prepare the engine and pump for long term storage.

It is important to prevent gum deposits from forming in essential fuel system parts such as the carburetor, fuel filter, fuel hose or tank during storage. Also, experience indicates that alcohol-blended fuels (called gasohol, ethanol or methanol) can attract moisture, which leads to separation and formation of acids during storage. Acidic gas can damage the fuel system of an engine while in storage.

Protect Fuel System

Fuel Additive:

If adding a fuel additive, fill the fuel tank with fresh fuel. If only partially filled, air in the tank will promote fuel deterioration during storage. Engine and fuel can be stored up to 24 months with additive.

- Add fuel additive following manufacturer's instructions.
- Make sure you have water supply to pump inlet connected and turned ON.
- Run the engine outdoors for several minutes to be sure that treated fuel has replaced the untreated fuel in the carburetor.

If fuel additive is not used, remove all fuel from tank and run engine until it stops from lack of fuel.

Change Oil

While engine is still warm, drain oil from crankcase. Refill with recommended grade. See "Changing Engine Oil" on page 18.

Oil Cylinder Bore

- Remove spark plug. Squirt about 1/2 ounce of clean engine oil into the cylinder. Cover spark plug hole with rag. Pull recoil handle slowly to distribute oil. Avoid spray from spark plug hole.
- Install spark plug. DO NOT connect spark plug wire.

Protect Pump

To protect the pump use Sears pump saver to prevent freeze damage and lubricate pistons and seals.

NOTE: Sears pump saver, item number 71-74403, is available as an optional accessory. It is not included with the pressure washer.

CAUTION

You must protect your unit from freezing temperatures.

- Failure to do so will permanently damage your pump and render your unit inoperable.
- Freeze damage is not covered under warranty.

To use the pump saver:

⚠ CAUTION

Read and follow all cautions and warnings on the PumpSaver can label.

- Always wear eye protection when using PumpSaver.

1. Attach hose on pump saver can to pump inlet.
2. Push in can top to dispense pump saver.
3. When pump saver fluid begins to exit pump outlet, the pump is protected.
4. Remove pump saver from pump inlet.

OTHER

- DO NOT store fuel from one season to another.
- If possible, store your unit indoors and cover it to give protection from dust and dirt. **BE SURE TO EMPTY THE FUEL TANK.**

⚠ WARNING

Storage covers can be flammable.

- DO NOT place a storage cover over a hot pressure washer.
- Let equipment cool for a sufficient time before placing the cover on the equipment.

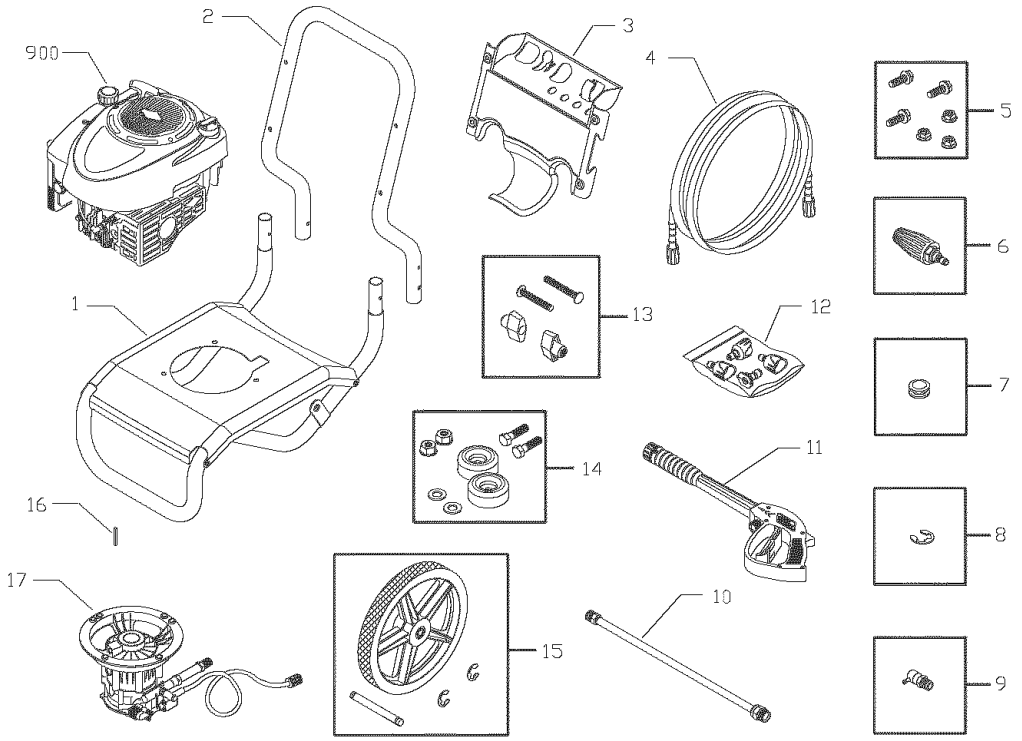
TROUBLESHOOTING

Problem	Cause	Correction
Pump has following problems: failure to produce pressure, erratic pressure, chattering, loss of pressure, low water volume.	1. Low pressure nozzle installed.	1. Replace nozzle with high pressure nozzle.
	2. Water inlet is blocked.	2. Clear inlet.
	3. Inadequate water supply.	3. Provide adequate water flow.
	4. Inlet hose is kinked or leaking.	4. Straighten inlet hose, patch leak.
	5. Clogged inlet hose strainer.	5. Check and clean inlet hose strainer.
	6. Water supply is over 100°F.	6. Provide cooler water supply.
	7. High pressure hose is blocked or leaks.	7. Clear blocks in outlet hose.
	8. Gun leaks.	8. Replace gun.
	9. Nozzle is obstructed.	9. Clean nozzle.
	10. Pump is faulty.	10. Contact Sears service facility.
Detergent fails to mix with spray.	1. Detergent siphoning tube is not submerged.	1. Insert detergent siphoning tube into detergent.
	2. Chemical filter is clogged or cracked.	2. Clean or replace filter/detergent siphoning tube.
	3. Dirty in-line filter.	3. See "Check In-Line Filter".
	4. High pressure nozzle installed.	4. Replace nozzle with low pressure nozzle.
Engine runs good at no-load but "bogs" when load is added.	Engine speed is too slow.	Move throttle control to FAST position. If engine still "bogs down", contact Sears service facility.
Engine will not start; or starts and runs rough.	1. Low oil level.	1. Fill crankcase to proper level.
	2. Dirty air cleaner.	2. Clean or replace air cleaner.
	3. Out of gasoline.	3. Fill fuel tank.
	4. Stale gasoline.	4. Drain gas tank; fill with fresh fuel.
	5. Spark plug wire not connected to spark plug.	5. Connect wire to spark plug.
	6. Bad spark plug.	6. Replace spark plug.
	7. Water in gasoline.	7. Drain gas tank; fill with fresh fuel.
	8. Overchoking.	8. Open choke fully and crank engine.
	9. Excessively rich fuel mixture.	9. Contact Sears service facility.
	10. Intake valve stuck open or closed.	10. Contact Sears service facility.
	11. Engine has lost compression.	11. Contact Sears service facility.
Engine shuts down during operation.	Out of gasoline.	Fill fuel tank.
Engine lacks power.	Dirty air filter.	Replace air filter.
Engine "hunts" or falters.	Choke is opened too soon.	Move choke to halfway position until engine runs smoothly.

NOTES

PARTS

CRAFTSMAN 2550 PSI Pressure Washer 580.752330
Main Unit — Exploded View and Parts List



Item	Part #	Description
1	196614GS	BASE
2	R196526GS	HANDLE
3	196901GS	ASSY, Billboard
	195964GS	CLIP, Tree
4	196138GS	HOSE
5	192645GS	KIT, Pump Mounting Hardware
6	194236CGS	NOZZLE, Turbo
7	30809GS	GROMMET
8	192050GS	KIT, E-Ring
9	194298GS	VALVE, Thermal Relief
10	195970GS	ASSY, Wand QC
11	193482GS	GUN
12	195943GS	KIT, Nozzles
	195851ZZGS	NOZZLE, QC, Black
	195842AEGS	NOZZLE, QC, ProjPro, Red
	195842XGS	NOZZLE, QC, ProjPro, Orange
	195842RGS	NOZZLE, QC, ProjPro, Yellow

Item	Part #	Description
13	B2203GS	KIT, Handle Connector
14	192310GS	KIT, Vibration Mount
15	196439GS	KIT, Wheel
16	23139GS	KEY
17	198421GS	ASSY, Pump (see page 25)
900	NSP	ENGINE (125K020137E1)

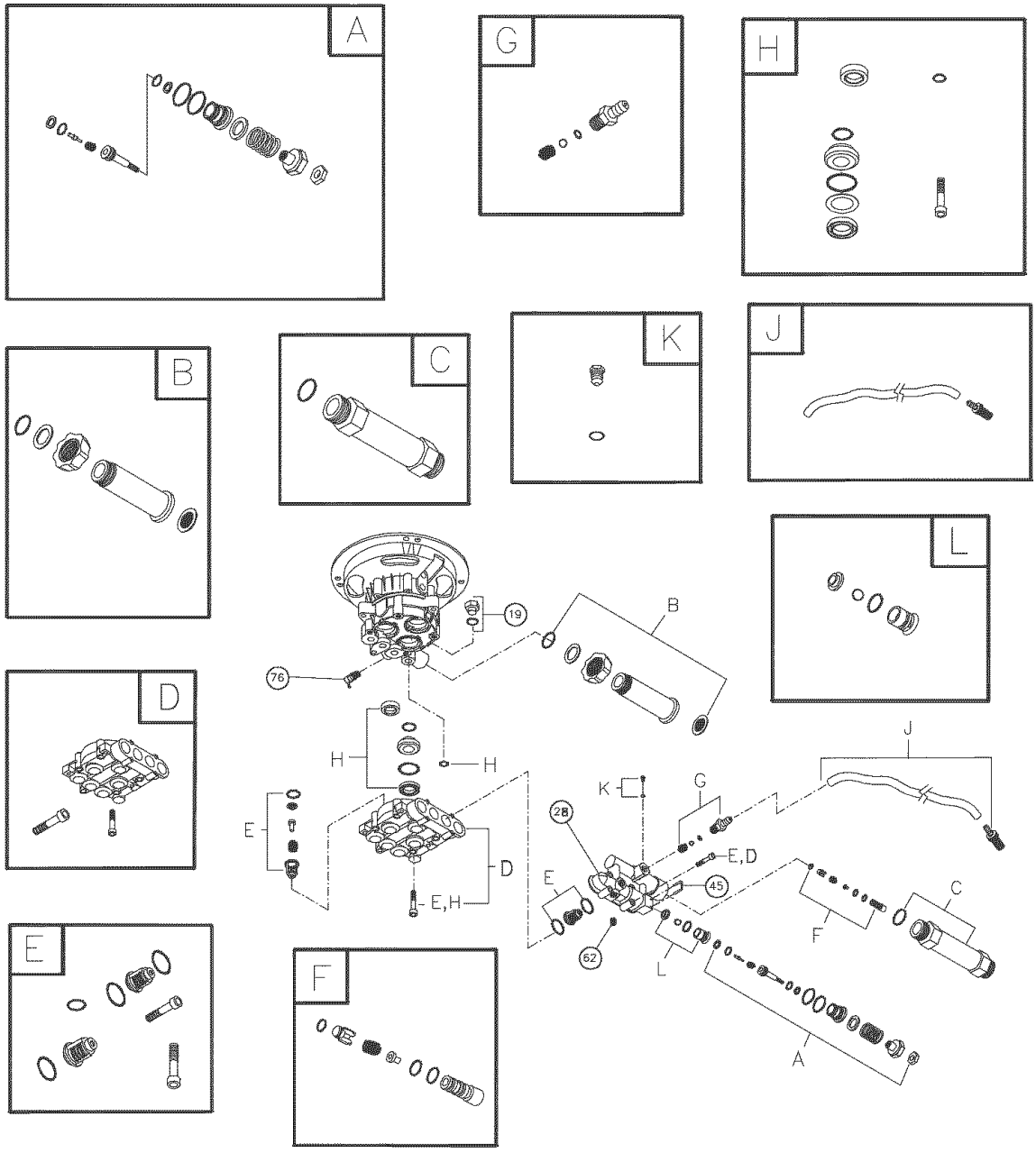
Items Not Illustrated

Part #	Description
194256GS	KIT, Tag Warning
195794GS	MANUAL, Owners
87815GS	GOGGLES
AB3061BGS	OIL BOTTLE

Optional Accessories Not Illustrated

7175187GS	Garden Hose Quick Connect
7175197GS	Accessory Quick Connect
7175199GS	Rotating Brush Kit
190249GS	25' Replacement Hose
7175116GS	O Ring Repair Kit
100513GS	25' Extension Hose
7174403GS	Pump Saver
7174300GS	House Wash Concentrate (makes 4 gallons)
7174301GS	Deck Wash Concentrate (makes 2 gallons)
7174302GS	Vehicle/Boat Wash Concentrate (makes 4 gallons)
7174303GS	Degreaser Concentrate (makes 4 gallons)
7174307GS	Mold/Mildew Concentrate (makes 2 gallons)

CRAFTSMAN 2550 PSI Pressure Washer 580.752330
Pump — Exploded View and Parts List



Item	Part #	Description
19	190571GS	CAP, Oil
28	190627GS	MANIFOLD
45	190578GS	PIN
62	190581GS	CAP, 1/8
76	194298GS	RELIEF, Thermal
A	190594GS	KIT, UNLOADER STEM
B	190632GS	KIT, WATER INLET, ALUM
C	190634GS	KIT, OUTLET, ALUM
D	193808GS	KIT, HEAD BRASS
E	193806GS	KIT, CHECK VALVES
F	190592GS	KIT, INLET CHECK
G	190593GS	KIT, CHEMICAL INJECTION

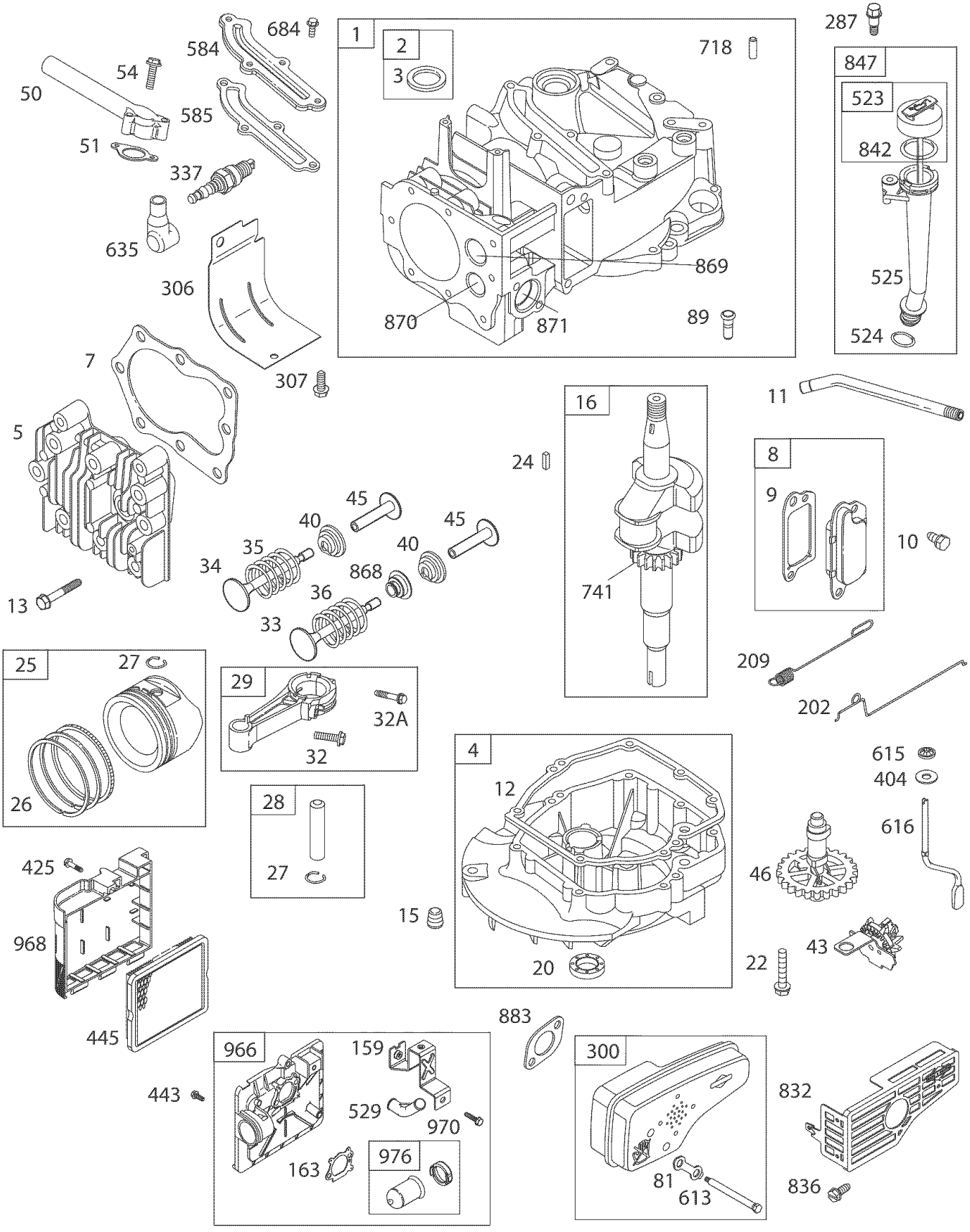
Item	Part #	Description
H	193807GS	KIT, SEAL SET
J	189971GS	KIT, CHEMICAL HOSE
K	193971GS	KIT, PIPE FITTING
L	193972GS	KIT, UNLOADER SEAT

Items Not Illustrated

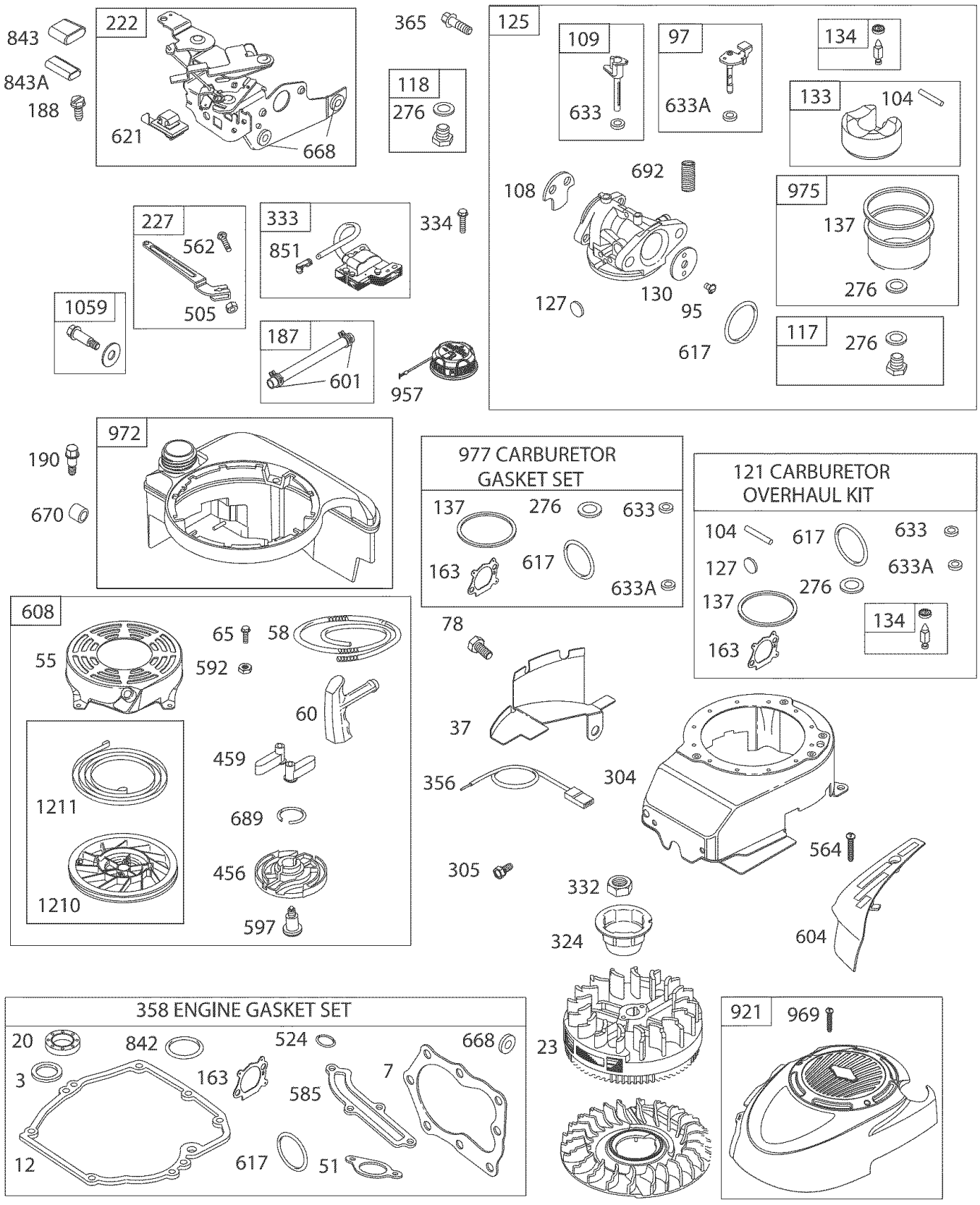
190586GS	OIL BOTTLE
B2384GS	FILTER, Inlet
186452GS	FILTER, Inlet, Bag of 10

NOTE: Item letters A - L are service kits and include all parts shown within the box.

ENGINE, 6.75 HP, Briggs and Stratton, 125K02 – Exploded View



ENGINE, 6.75 HP, Briggs and Stratton, 125K02 – Exploded View



ENGINE, 6.75 HP, Briggs and Stratton, 125K02 – Parts List

Item	Part #	Description
1	697322	Cylinder Assembly
2	399269	Kit- Bushing/Seal (Magneto Side)
3	299819	Seal-Oil (Magneto Side)
4	493279	Sump-Engine
5	691160	Head-Cylinder
7	692249	Gasket-Cylinder Head
8	695250	Breather Assembly
9	699472	Gasket-Breather
10	691125	Screw (Breather Assembly)
11	691781	Tube-Breather
12	692232	Gasket-Crankcase
13	690912	Screw (Cylinder Head)
15	691680	Plug-Oil Drain
16	694849	Crankshaft
20	399781	Seal-Oil (PTO Side)
22	691092	Screw (Crankcase Cover/Sump)
23	691992	Flywheel
24	222698	Key-Flywheel
25	790359	Piston Assembly (Standard)
26	790360	Ring Set (Standard)
27	691866	Lock-Piston Pin
28	499423	Pin-Piston
29	499424	Rod-Connecting
32	691664	Screw (Connecting Rod)
32A	695759	Screw (Connecting Rod)
33	262651	Valve-Exhaust
34	262652	Valve-Intake
35	691270	Spring-Valve (Intake)
36	691270	Spring-Valve (Exhaust)
37	694086	Guard-Flywheel
40	692194	Retainer-Valve
43	691997	Governor/Oil Slinger
45	690548	Tappet-Valve
46	691449	Camshaft
48	N/A	Short Block
50	497465	Manifold-Intake
51	272199	Gasket-Intake
54	691650	Screw (Intake Manifold)
55	691421	Housing-Rewind Starter
58	697316	Rope-Starter (Cut to Required Length)
60	281434	Grip-Starter Rope
65	690837	Screw (Rewind Starter Housing)
78	691108	Screw (Flywheel Guard)
81	691740	Lock-Muffler Screw
89	692348	Plug-Oil
95	691636	Screw (Throttle Valve)
97	493267	Shaft-Throttle
104	691242	Pin-Float Hinge
108	691182	Valve-Choke
109	498593	Shaft-Choke
117	498478	Jet-Main (Standard)
118	498975	Jet-Main (High Altitude)
121	498260	Kit-Carburetor Overhaul
125	499059	Carburetor
127	694468	Plug-Welch
130	691203	Valve-Throttle
133	398187	Float-Carburetor
134	398188	Valve-Needle (Includes Seat)
137	693981	Gasket-Float Bowl
159	691753	Bracket-Air Cleaner Primer
163	272653	Gasket-Air Cleaner
187	691050	Line-Fuel (Used Before Date Code 05071800)
187	791666	Line-Fuel (Used After Date Code 05071700)
188	693399	Screw (Control Bracket)
190	690940	Screw (Fuel Tank)
202	691829	Link-Mechanical Governor
209	691290	Spring-Governor
222	692150	Bracket-Control
227	690783	Lever-Governor Control
276	271716	Washer-Sealing
287	690940	Screw (Oil Fill Tube)
300	692038	Muffler
304	493294	Housing-Blower
305	691108	Screw (Blower Housing)
306	690450	Shield-Cylinder
307	690345	Screw (Cylinder Shield)
324	695161	Screen/Cup Assembly
332	690662	Nut (Flywheel)
333	802574	Armature-Magneto
334	691061	Screw (Magneto Armature)
337	802592	Plug-Spark
356	692390	Wire-Stop
358	497316	Gasket Set-Engine
365	692524	Screw (Carburetor)
404	690272	Washer (Governor Crank)
425	690670	Screw (Air Cleaner Cover)
443	692523	Screw (A/C Primer Bracket)
445	491588	Filter-A/C Cartridge
456	692299	Plate-Pawl Friction
459	281505	Pawl-Ratchet
505	691251	Nut (Governor Control Lever)
523	495264	Dipstick
524	692296	Seal-Dipstick Tube
525	495265	Tube-Dipstick
529	691923	Grommet
562	691119	Bolt (Governor Lever)
564	698589	Screw (Control Cover)
584	697734	Cover-Breather Passage
585	691879	Gasket-Breather Passage
592	690800	Nut (Rewind Starter Housing)
597	691696	Screw (Pawl Friction Plate)
601	95162	Clamp-Hose
604	790703	Control Cover
608	497680	Starter-Rewind
613	691340	Screw (Muffler)
615	690340	Retainer
616	698801	Crank-Governor
617	270344	Seal-Intake Manifold
621	692310	Switch-Stop
633	693867	Seal-Choke/Throttle Shaft (Choke)
633A	691321	Seal-Choke/Throttle Shaft (Throttle)
635	66538	Boot-Spark Plug
668	493823	Spacer (Includes 2)
670	692294	Spacer-Fuel Tank
684	690345	Screw (Breather Passage Cover)
689	691855	Spring-Friction
692	690572	Spring-Detent
718	690959	Pin-Locating
741	790345	Gear-Timing
832	499034	Guard-Muffler
836	690664	Screw (Muffler Guard)
842	691031	Seal- Dipstick Tube
843	691884	Sleeve-Lever (Speed Control)
843A	691895	Sleeve-Lever (Choke)
847	692017	Dipstick/Tube Assembly
851	493880	Terminal-Spark Plug
868	697338	Seal-Valve
869	691155	Seat-Valve (Intake)
870	690380	Seat-Valve (Exhaust)
871	262001	Bushing-Guide (Exhaust Valve)
871	63709	Bushing-Guide (Intake Valve)
883	691881	Gasket-Exhaust
921	790701	Cover-Blower Housing
957	699985	Cap-Fuel Tank
966	496116	Base-Air Cleaner Primer
968	692298	Cover-Air Cleaner
969	690700	Screw (Blower Housing Cover)
970	691669	Screw (Support Bracket)
972	693974	Tank-Fuel
975	493640	Bowl-Float
976	694395	Primer-Carburetor
977	498261	Gasket Set-Carburetor
1005	691346	Fan-Flywheel
1059	692311	Kit-Screw/Washer
1210	498144	Pulley/Spring Assembly (Pulley)
1211	498144	Pulley/Spring Assembly (Spring)

NOTES

EMISSION CONTROL WARRANTY STATEMENT

Sears, Roebuck and Co., U.S.A. (Sears), the California Air Resources Board (CARB) and the United States Environmental Protection Agency (U.S.EPA)

Emissions Control System Warranty Statement (Owner's Defect Warranty Rights and Obligations)

The California Air Resources Board (CARB), U.S. EPA and Sears are pleased to explain the Emissions Control System Warranty on your small offroad engine (SORE). In California, new small offroad engines model year 2006 and later must be designed, built and equipped to meet the State's stringent anti-smog standards.

Elsewhere in the United States, new non-road, spark-ignition engines certified for model year 1997 and later must meet similar standards set forth by the U.S. EPA. Sears must warrant the emissions control system on your engine for the periods of time listed below, provided there has been no abuse, neglect or improper maintenance of your small off-road engine.

Your emissions control system includes parts such as the carburetor, air cleaner, ignition system, fuel line, muffler and catalytic converter. Also included may be connectors and other emissions related assemblies.

Where a warrantable condition exists, Sears will repair your small off-road engine at no cost to you including diagnosis, parts and labor.

Sears, Roebuck and Co. Emissions Control Defects Warranty Coverage

Small off-road engines are warranted relative to emissions control parts defects for a period of two years, subject to provisions set forth below. If any covered part on your engine is defective, the part will be repaired or replaced by Sears.

Owner's Warranty Responsibilities

As the small off-road engine owner, you are responsible for the performance of the required maintenance listed in your Operating and Maintenance Instructions. Sears recommends that you retain all your receipts covering maintenance on your small off-road engine, but Sears cannot deny warranty solely for the lack of receipts or for your failure to ensure the performance of all scheduled maintenance.

As the small off-road engine owner, you should however be aware that Sears may deny you warranty coverage if your small off-road engine or a part has failed due to abuse, neglect, improper maintenance or unapproved modifications.

You are responsible for presenting your small off-road engine to an Authorized Sears Service Dealer as soon as a problem exists.

The undisputed warranty repairs should be completed in a reasonable amount of time, not to exceed 30 days.

If you have any questions regarding your warranty rights and responsibilities, you should contact a Sears Service Representative at 1-800-469-4663.

The emissions warranty is a defects warranty. Defects are judged on normal engine performance. The warranty is not related to an in-use emissions test.

Sears, Roebuck and Co. Emissions Control Defects Warranty Provisions

The following are specific provisions relative to your Emissions Control Defects Warranty Coverage. It is in addition to the Sears engine warranty for non-regulated engines found in the Operating and Maintenance Instructions.

1. **Warranted Parts**

   Coverage under this warranty extends only to the parts listed below (the emissions control systems parts) to the extent these parts were present on the engine purchased.

   a. Fuel Metering System
   - Cold start enrichment system
   - Carburetor and internal parts
   - Fuel Pump
   - Fuel line, fuel line fittings, clamps

   b. Air Induction System
   - Air cleaner
   - Intake manifold

   c. Ignition System
   - Spark plug(s)
   - Magneto ignition system

   d. Catalyst System
   - Catalytic converter
   - Exhaust manifold
   - Air injection system, Pulse valve

   e. Miscellaneous Items
   - Vacuum, temperature, position, time sensitive valves and switches
   - Connectors and assemblies

2. **Length of Coverage**

   Sears warrants to the initial owner and each subsequent purchaser that the Warranted Parts shall be free from defects in materials and workmanship which caused the failure of the Warranted Parts for a period of two years from the date the engine is delivered to a retail purchaser.

3. **No Charge**

   Repair or replacement of any Warranted Part will be performed at no charge to the owner, including diagnostic labor which leads to the determination that a Warranted Part is defective, if the diagnostic work is performed at an Authorized Sears Service Dealer.

4. **Claims and Coverage Exclusions**

   Warranty claims shall be filed in accordance with the provisions of the Sears Engine Warranty Policy. Warranty coverage shall be excluded for failures ofWarranted Parts which are not original Sears parts or because of abuse, neglect or improper maintenance as set forth in the Sears Engine Warranty Policy. Sears is not liable to cover failures of Warranted Parts caused by the use of add-on, non-original, or modified parts.

5. **Maintenance**

   Any Warranted Part which is not scheduled for replacement as required maintenance or which is scheduled only for regular inspection to the effect of "repair or replace as necessary" shall be warranted as to defects for the warranty period. Any Warranted Part which is scheduled for replacement as required maintenance shall be warranted as to defects only for the period of time up to the first scheduled replacement for that part. Any replacement part that is equivalent in performance and durabilitymay be used in the performance of any maintenance or repairs. The owner is responsible for the performance of all required maintenance, as defined in the Sears Operating and Maintenance Instructions.

6. **Consequential Coverage**

   Coverage hereunder shall extend to the failure of any engine components caused by the failure of any Warranted Part still under warranty.

In the USA and Canada, a 24-hour hotline, 1-800-469-4663, has a menu of pre-recorded messages offering you product maintenance information.

Emissions Durability Period and Air Index Information On Your Engine Emissions Label

Engines that are certified to meet the California Air Resources Board (CARB) Tier 2 Emission Standards must display information regarding the Emissions Durability Period and Air Index. The engine manufacturer makes this information available to the consumer on emission labels.

The **Emissions Durability Period** describes the number of hours of actual running time for which the engine is certified to be emissions compliant, assuming proper maintenance in accordance with the Operating & Maintenance Instructions. The following categories are used:

Moderate: Engine is certified to be emission compliant for 125 hours of actual engine running time.

Intermediate: Engine is certified to be emission compliant for 250 hours of actual engine running time.

Extended: Engine is certified to be emission compliant for 500 hours of actual engine running time.

For example, a typical walk-behind lawn mower is used 20 to 25 hours per year. Therefore, the **Emissions Durability Period** of an engine with an **intermediate** rating would equate to 10 to 12 years.

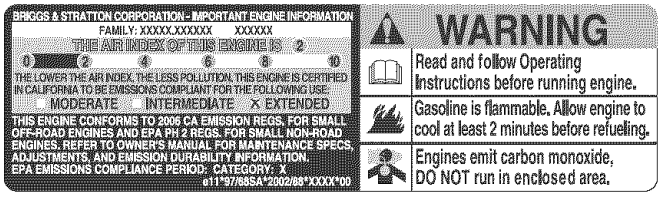
The **Air Index** is a calculated number describing the relative level of emissions for a specific engine family. The lower the **Air Index**, the cleaner the engine. This information is displayed in graphical form on the emissions label.

Emissions Compliance Period On Engine Emissions Compliance Label

After July 1, 2000 certain Sears engines will be certified to meet the United States Environmental Protection Agency (USEPA) Phase 2 emission standards. For phase 2 certified engines, the Emissions Compliance Period referred to on the Emissions Compliance label indicates the number of operating hours for which the engine has been shown to meet Federal emission requirements. For engines less than 225 cc displacement, Category C = 125 hours, B = 250 hours and A = 500 hours. For engines of 225 cc or more, Category C = 250 hours, B = 500 hours and A = 1000 hours.

This engine has a moderate rating with and Air Index of 3. The EPA Emissions compliance period is Category C. The displacement of this engine is 190 cc.

Below is a generic representation of the emission label typically found on a certified engine.


BRIGGS & STRATTON CORPORATION - IMPORTANT ENGINE INFORMATION
FAMILY: XXXXX.XXXXXX XXXXXX
THE AIR INDEX OF THIS ENGINE IS 2
0 2 4 6 8 10
THE LOWER THE AIR INDEX, THE LESS POLLUTION. THIS ENGINE IS CERTIFIED IN CALIFORNIA TO BE EMISSIONS COMPLIANT FOR THE FOLLOWING USE:
MODERATE INTERMEDIATE X EXTENDED
THIS ENGINE CONFORMS TO 2005 CA EMISSION REGS. FOR SMALL OFF-ROAD ENGINES AND EPA PH 2 REGS. FOR SMALL NON-ROAD ENGINES. REFER TO OWNER'S MANUAL FOR MAINTENANCE SPECS, ADJUSTMENTS, AND EMISSION DURABILITY INFORMATION.
EPA EMISSIONS COMPLIANCE PERIOD: CATEGORY: X
e11*97/68SA*2002/88*XXXX*00
WARNING
Read and follow Operating Instructions before running engine.
Gasoline is flammable. Allow engine to cool at least 2 minutes before refueling.
Engines emit carbon monoxide, DO NOT run in enclosed area.

Get it fixed, at your home or ours!

Your Home

For repair—**in your home**—of **all** major brand appliances, lawn and garden equipment, or heating and cooling systems, **no matter who made it, no matter who sold it!**

For the replacement parts, accessories and owner's manuals that you need to do-it-yourself.

For Sears professional installation of home appliances and items like garage door openers and water heaters.

1-800-4-MY-HOME® Anytime, day or night
(1-800-469-4663) (U.S.A. and Canada)
www.sears.com **www.sears.ca**

Our Home

For repair of carry-in items like vacuums, lawn equipment, and electronics, call or go on-line for the nearest **Sears Parts & Repair Center.**

1-800-488-1222 Anytime, day or night (U.S.A. only)

www.sears.com

To purchase a protection agreement (U.S.A.) or maintenance agreement (Canada) on a product serviced by Sears:

1-800-827-6655 (U.S.A.) **1-800-361-6665** (Canada)

Para pedir servicio de reparación a domicilio, y para ordenar piezas:
1-888-SU-HOGAR℠
(1-888-784-6427)

Au Canada pour service en français:
1-800-LE-FOYER℠
(1-800-533-6937)
www.sears.ca

Sears

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